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ENGLAND, 1859.]

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Published Weekly at 42 CANNON STREET,
LONDON, E.C.

TELEGRAPHIC ADDRESS:
"CHEMUS, CANNON, LONDON."
(Charged as two words only.)

Established in
AUSTRALASIA, 1885.

No. 1.796 Vol. LXXXIV.

JUNE 27, 1914.

Subscription, 10s. per annum, including Diary.
Free the World over. Single Copies 6d. each.
Winter and Summer Issues, 1s. each. Post Free.

Effervescent Citrate of Magnesia (So called)

This preparation is supplied in white granules of uniform size, and is prepared in four qualities, all of which are of excellent value.

The following
are the various styles
of Packing.

Blue Flats, plain shives,
sealed or capsuled.

No. 1	No. 3	quality	quality
2 oz. in 4 oz.	4/-	3/4	doz.
3 oz. in 6 oz.	5/-	4/2	doz.
4 oz. in 8 oz.	6/2	4/10	doz.
6 oz. in 12 oz.	8/10	6/10	doz.
8 oz. in 16 oz.	11/-	8/3	doz.
16 oz. in 32 oz.	15/6	doz.	

White or Amber Glass
Kalis, plain shives,
capsuled, or fitted with
boxwood top shives.

No. 1	No. 3	quality	quality
2 oz. in 4 oz.	3/6	3/1	doz.
3 oz. in 6 oz.	4/6	3/8	doz.
4 oz. in 8 oz.	5/5	4/4	doz.
6 oz. in 12 oz.	8/4	6/6	doz.
8 oz. in 16 oz.	10/6	8/-	doz.
10 oz. in 20 oz.	12/6	9/6	doz.

Boxwood top shives charged
3d. per dozen extra for 8 oz.
size and under, 6d. per dozen
extra for sizes exceeding 8 oz.



Wood's plug-stoppered
Cheltenhams,
metallic capsuled.

No. 1	No. 3	quality	quality
3 oz. in 6 oz.	6/9	5/9	doz.
4 oz. in 8 oz.	7/9	6/6	doz.
6 oz. in 12 oz.	10/9	9/-	doz.
8 oz. in 16 oz.	13/-	11/-	doz.

Plug-stopp'd Cheltenhams,
metallic capsuled or fitted
with boxwood top shives.

No. 1	No. 3	quality	quality
3 oz. in 6 oz.	5/6	4/9	doz.
4 oz. in 8 oz.	6/9	5/6	doz.
6 oz. in 12 oz.	9/-	7/6	doz.
8 oz. in 16 oz.	11/6	9/6	doz.

Boxwood top shives charged
3d. per dozen extra for 8 oz.
size and under, 6d. per dozen
extra for sizes exceeding 8 oz.

Samples forwarded on
request, also
Specimens of available
Labels.

Special Prices to Buyers
in Quantity.

Allen &
Hanburys
Ltd. :: London

THE FIRST SERIES OF
Wright's Window Display Competition

for 1914 CLOSES ON TUESDAY, JUNE 30.

250

To the first **100** chemists purchasing display quantities of Wright's Coal Tar Soap, namely, one gross of boxes with two dozen boxes as a bonus for Window Display during the month of June, we will send a copy for exhibition in the window of the reproduction of

THE OIL PAINTING by SHERIDAN KNOWLES, "ORANGES AND LEMONS," the distribution of which we are advertising largely in the Public Press.

The picture is superbly produced. Size 33 in. by 27 in., in colours faithful to the original, and is entirely free from advertisement matter. It is sent to those who send 24 Wrappers from 4d. Tablets of

WRIGHT'S Coal Tar SOAP

with 6d. to cover packing and postage.

The display of this picture in your window should bring you many customers for 24 tablets of WRIGHT'S COAL TAR SOAP.

A Window Display of WRIGHT'S COAL TAR SOAP yields 30 per cent. Profit on the Selling Price;

And the following are the Prizes: 14 CASH PRIZES awarded twice yearly:

FIRST PRIZE, £25, THIRD PRIZE, £10, and 10 Consolation Prizes of £1 each.
SECOND " £15, FOURTH " £5.

Write instantly to WRIGHT, LAYMAN & UMNEY, Ltd., Southwark, LONDON, S.E.

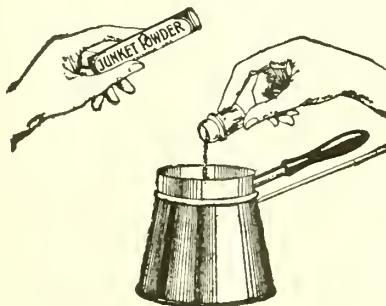


"ORANGES AND LEMONS."

From the original painting by G. SHERIDAN KNOWLES, R.C.A., R.I., R.O.I.

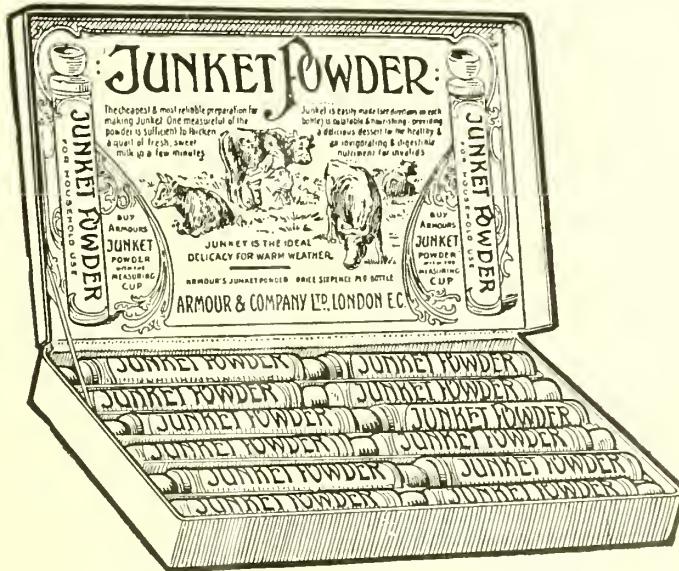
Armour's Junket Powder OR Rennet Powder

(Order the style that suits your trade).



The activity of many Rennets is fugitive. Armour's keeps indefinitely, and never fails. None will curdle milk so readily as Armour's.

Armour's Junket and Rennet Powder is packed smartly. The glass tube with measure-top is distinctive and handy.



Packed in boxes containing 12 tubes

Price :
4/- per box.

P.A.T.A.
6d. per tube.

xx
Showcards
AND
Counter Bills.
An artistic showcard and a good supply of useful counter bills sent with three boxes.

Window Bills.
Every box contains a window bill.

ARMOUR AND COMPANY
LIMITED
LONDON



A SYMPHONY IN SILVER & BLUE

PRICES OF VEN-YUSA GOODS.

VEN-YUSA CREAM (Non-Greasy)

10/- per doz. net.	Minimum Selling Price, 1/- per pot.
9/3 " " (in gross quantities)	do. do.

VEN-YUSA SOAP (Super-Creamed Toilet), 4d. Tablets (Boxed in threes)—

37/- per gross net (for quantities under 3 gross)	Minimum Selling Price, 4d. tablet, or
11d. per box of 3.	

37/- " (less 2½% for 3 gross quantities)	do.	do.
37/- " (less 5% for 6 gross quantities)	do.	do.

A rebate of 1/- per gross on Ven-Yusa Toilet Soap is allowed if ordered in boxes containing 1 doz. tablets instead of boxes of 3 tablets.

Special Bonus Terms for Window Displays.

COST.		SELLING PRICE.	
	£ s. d.		£ s. d.
6 doz. Ven-Yusa Non-Greasy Cream, 1/- size	2 15 6	6 doz. Ven-Yusa Cream at 1/-	3 12 0
1 gross Ven-Yusa Toilet Soap, Super-Creamed (Boxed in threes)	1 17 0	2 gross Ven-Yusa Toilet Soap	4 16 0
1 gross do. (in doz. boxes)	1 16 0		
	6 8 6		
2½% Cash Discount	0 3 3		
	6 5 3		
Bonus for Window Show	0 15 0		
	£5 10 3		£8 8 0

PROFIT, £2 17s. 9d. = 52%

C. & J. Fulford Ltd. LEEDS & DUBLIN.

CUT THIS OUT

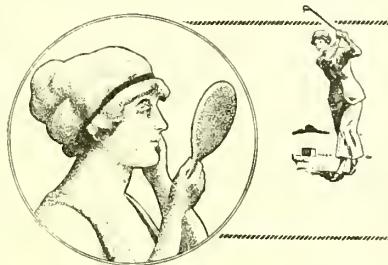
This Coupon entitles you to a trial jar of Ven-Yusa Cream, the Non-Greasy Crème de Luxe, FREE OF CHARGE. Read about the special and unique features of Ven-Yusa in the advertisement on the reverse page. Send this Coupon and postage 1½d with two penny stamps (for cover plus postage) to C. E. FULFORD, LTD., 10, LEEDS.

Daily Mail
THURSDAY, JUNE 18, 1914

THE London & Midland Insurance Company, Ltd., has the largest British and Colonial Fire Premium Income of any Independent Office. See Front Page.

Let OXYGEN Act ON YOUR SKIN!

THE ONLY WAY TO NATURAL BEAUTY.



A Brilliant and Captivating Toilet Discovery.

UNDER present-day social conditions the skin has a hard task to preserve its natural clearness, flexibility and velvety texture. It must have outside aid if it is to be preserved against the destructive effect of wind and sun; or made to withstand the stress of a "season" in town.

A further study of the physiology of the skin has led to a discovery of great value, completely reversing some of our old ideas on the question of the complexion.

The achievement commands our admiration because it embodies the novel principle of seeking beauty and health with the help of air-like oxygen conveyed to the skin in a handy form.

The Power of Oxygen.

Oxygen is the vital part of the air around us, being present to the extent of approximately one part in five. It is present in country and seaside air to a somewhat larger extent and in a purer state than in the offgas atmosphere of our towns and ill-ventilated homes. Hence the great value of a change of air for driving away the pallor from our cheeks and replacing it by a clear, healthy complexion.

The richer the air is in oxygen, the more it is capable of improving the complexion, as it is "breathed" in by the pores. There is a powerful, vitalising and purifying action on the part of oxygen which enables it to get rid of the unhealthy pigments lying in the skin, and so restore the soft bloom of Nature in a conspicuous way.

Now it has been sought to bring the boon of this complexion-clearing oxygen in a compact, handy form right to the dressing-table, so that aid is given to beauty equal to a spell of seaside air.

This is the ideal object of a novel preparation called the Ven-Yusa toilet Crème de Luxe, which is charged heavily with oxygen, among certain other highly beneficial agents. As the cream is gently rubbed over the face, neck, hands, or arms, as the case may be, the oxygen is liberated and enabled to exert its beautifying and wholesome influence on the surrounding surface. From the enhancement in one's appearance it is clear that changes of a wonderfully beneficial nature have been set up.

A little Ven-Yusa on the tip of the finger and rubbing in by a gentle, circular fashion—rather more persistently in the case of wrinkles or blotches than for a mere defect of complexion—comprises the daily treatment.

Nature's Way to Beauty.

By reason of its natural character, Ven-Yusa does not make the skin sore or smart, nor does it cause hair to grow on the face, as greasy creams will do.



On the other hand, there are active ingredients in Ven-Yusa which have a subtle renovating effect on the skin and complexion.

Ven-Yusa is particularly valuable for all sore, irritated, or chafed conditions of the skin; it is excellent to apply to the face, arms, hands, and neck before and after exposure to the weather when motoring, boating, golfing, or playing tennis, or pursuing other pastimes.

The Ven-Yusa made complexion resembles that healthy bloom which is born of country life, but with all the added delicacy that comes from the use of a face cream that is distinguished by its exquisite quality, purity, and splendid refinement.

There is natural beauty in every jar of Ven-Yusa.

VEN-YUSA
The Wonderful Crème de Luxe.

VEN-YUSA is put up in dainty opal jars, with chaste-designed aluminium caps, enclosed in elegant cartons of Wedgwood blue and silver. It is the daintiest of creams in the daintiest of packages. Only price, 1s per Jar of all Chemists, Stores and Perfumeurs, or if your dealer is out of Stock, POST FREE at same price 1s direct from C. E. FULFORD, LTD., Leeds.

From a photograph showing the healthy appearance of the skin 10 days after it had been treated with Ven-Yusa.

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THE IDEAL SUMMER DRINK:

“An Ideal-and-Soda!”



Ice Cream Soda Fountains are expensive. Save the expense, but get the Trade!

You supply the Soda, add our

IDEAL MILK

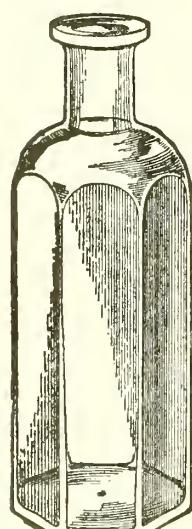
in the proportion of 3 or 4 parts of Soda to 1 of Milk, and any desired flavouring.



A PAYING SIDE-LINE TO ATTRACT CUSTOMERS!

SAMPLES AND PRICES OF :

NESTLE'S, Eastcheap, LONDON.



THE “IDEAL” BOTTLE THE BEST FOR SPECIALITIES AND PREPARATIONS.

The several flat sides have the effect of brilliantly reflecting the contents, thus greatly increasing the natural brightness of the preparation. This is evident when seen in a good light, as in a shop window. A good, attractive bottle, well labelled and finished, frequently sells a preparation.

PRICES PER GROSS.

	½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.	10-oz.	12-oz.	16-oz.	20-oz.
W.G. “Ideals”	4/10	5/5	6/2	7/-	7/10	9/5	11/7	14/-	16/8	18/3	23/8	29/-
Amber and Actinic “Ideals” ...	5/8	6/2	7/-	7/10	8/7	10/3	13/2	15/1	18 3	19/11	25/10	31/2
W.G. “Ideals” Stoppered ...	19/11	20/5	21/6	22/-	23/5	25/10	30/1	33/10	36/7	39/9	47/4	51/7
Amber and Actinic “Ideals” Stoppered	20/5	21/6	22/4	23/1	24/2	27/5	31/9	35/6	39/3	41/11	50/6	55/11

Compare these quotations with those of other bottles, especially the stoppered ones.

TEST THE “IDEAL” BOTTLE BY PLACING THE SAME LIQUID IN AN “IDEAL” AND AN ORDINARY ROUND BOTTLE OF THE SAME SIZE, AND SEE THE DIFFERENCE IN APPEARANCE.

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Filter Co., Ltd.**HYPONOTICS**Knoll & Co., Ltd.
Widenmann, Broicher & Co., Ltd.**HYPOPHOSPHITES**May & Baker, Ltd.
Morson, T., & Son

Tyrer, T., & Co., Ltd.

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Ichthyl Gesellschaft

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Santag Co.**INSECT POWDER**

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Keating, Thomas

Potter & Clarke, Ltd.

Raimes & Co.

Shaw, Godfrey

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Cook, E., & Co., Ltd.

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Co., Ltd.**IODIDES**

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Burroughs Wellcome & Co.

LARD

Ewen, J., & Sons

LAVENDER OIL

Jackson, John, & Co.

Ransom, W., & Son, Ltd.

LAVENDER WATER

Bush, W. J., & Co., Ltd.

Vindolia Co., Ltd.

LECITHIN

Chem. Works "Victoria"

Merek, E.

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Goodall, Backhouse & Co.

Idris & Co., Ltd.

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Maw, S., Son & Sons

Robinson & Sons, Ltd.

Vernon & Co., Ltd.

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Mumford, G. S., & Sons

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Mumford, G. S., & Sons
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Howards & Sons, Ltd.

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May & Baker, Ltd.

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Solport Bros.

Swales, Thomas

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Raimes & Co.

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Bennett, Sons & Shears, Ltd.

Frogrove Machinery Co., Ltd.

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Gardiner, Wm., & Sons, Ltd.

Griffith, John H., & Sons, Ltd.

Hardy Patent Pick Co., Ltd.

Pinder, J. W., & Co.

Stokes, F. J., Machine Co.

Thompson & Capper, Ltd.

Wilkinson, S. W., & Co.

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Blackie, Ltd.

Boulton Macro, Ltd.

British Drug Houses, Ltd., The

Burroughs Wellcome & Co.

Calder, James, & Co., Ltd.

Corbyn, Stacy & Co., Ltd.

Curling, Geo., Wyman & Co.

Davies, Sons & Co.

Evans Sons Lescher & Webb, Ltd.

Fletcher, Fletcher & Co., Ltd.

Paine & Co., Ltd.

Pascall, James, Ltd.

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Sacharini Corporation, Ltd.

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Brand & Co., Ltd.

Tooth's Extract of Meat Co.

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Ward & Goldstone

MERCURIALS

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Howards & Sons, Ltd.

May & Baker, Ltd.

Tyrer, T., & Co., Ltd.

Whiffen & Sons, Ltd.

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Co., Ltd.

Randall & Son, Ltd.

Riddell & Smith

Thornley, Samuel, Ltd.

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Nestle's

MILK SUGAR

Hollandsche Melksnikerfahriek

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Apollinaris Co., Ltd.

Ingram & Royle, Ltd.

Vichy-Celestine

MIXERS AND SISTERS

Gardiner, Wm., & Sons (Gloucester), Ltd.

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Tilling, Thomas, Ltd.

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Rueff, Julius

MUSTARD SEED OIL

Johnson, J. H. & S.

NAIL POLISH PAPER, &c.

Pharm. Ind. Ges. Offenbach

NAPHTHALENE

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Campbell, J. D.

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Schimmelp & Co.

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Wright, Layman & Umney, Ltd.

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Burgess, E.

Oldfield, Pattinson & Co.

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Raphael's, Ltd.

Standard Optical Co.

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College of Optics

Spectacle Makers Company

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Kerfoot, Thos., & Co.

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Warrick Bros., Ltd.

Wright, Layman & Umney, Ltd.

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Lilywhite, Ltd.

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Blackie, Robert

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Cox, Arthur H., & Co., Ltd.

Christy, Thos., & Co.

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Raworth, John E.

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Ranson, W., & Son, Ltd.

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Schimmel & Co.
Wright, Layman & Umney, Ltd.

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Tyc, John, & Son

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McKesson & Robbins
Standard Tablet & Pill Co., Ltd
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Dalmas, A. de St., & Co.
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Harrison, G. W.
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Milner's Chemical Co.
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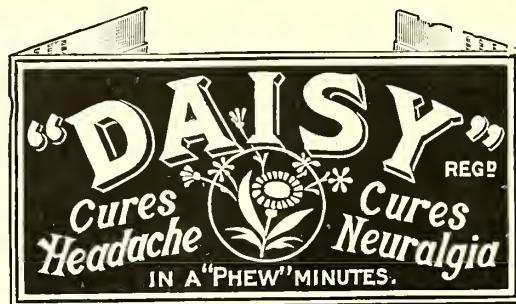
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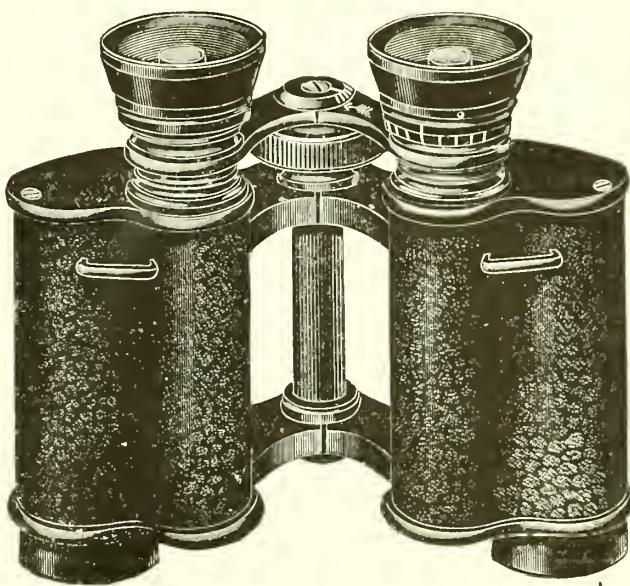
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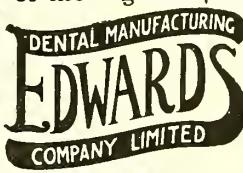
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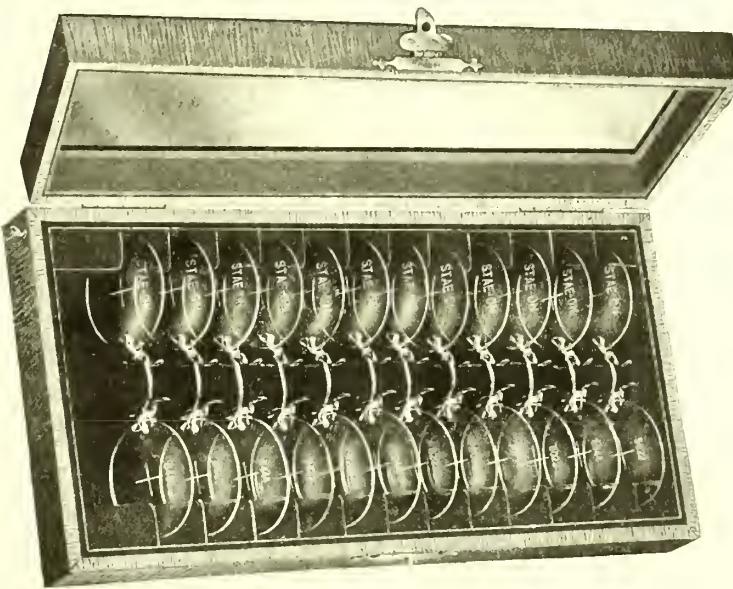
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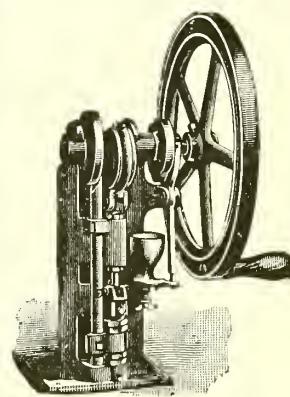
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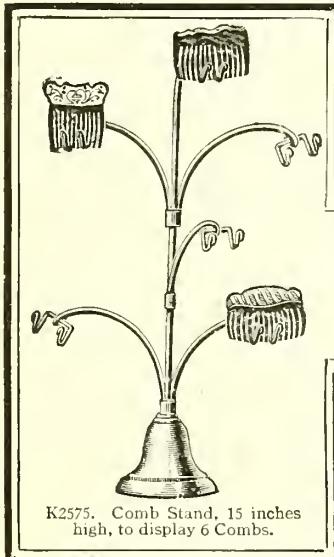
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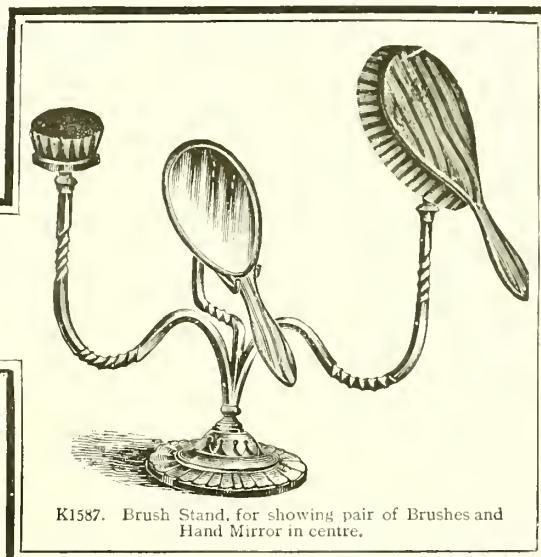
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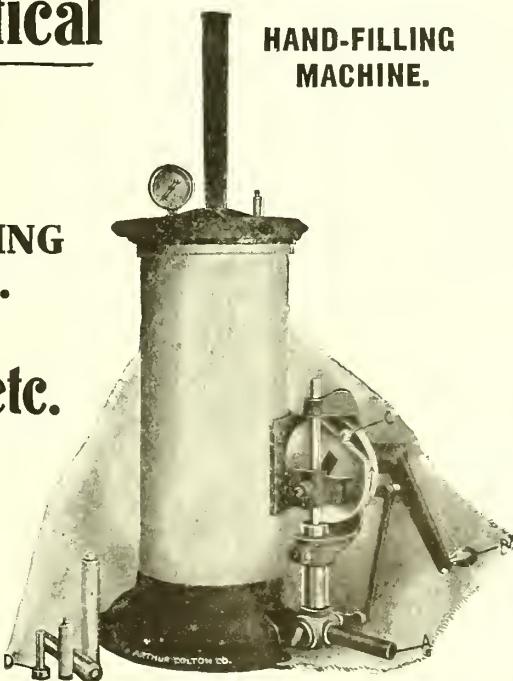
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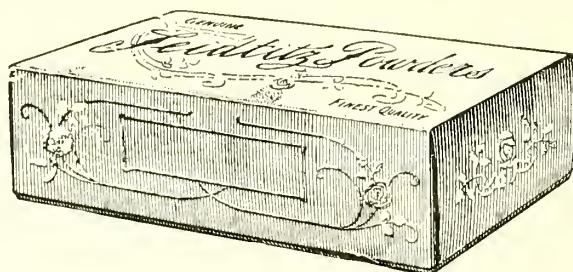
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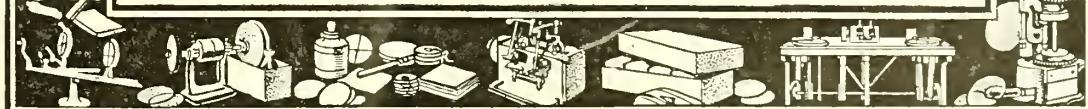
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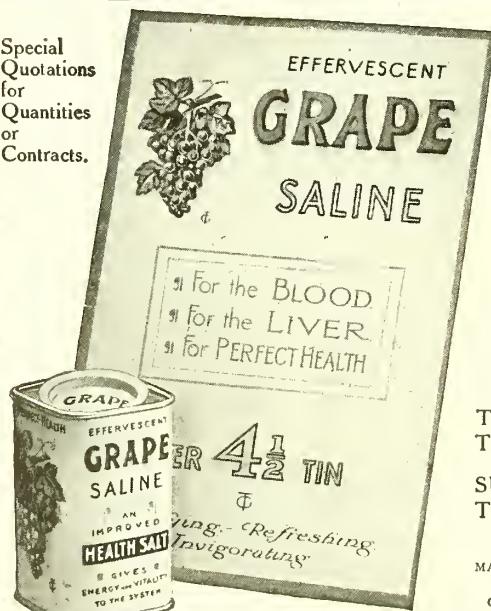
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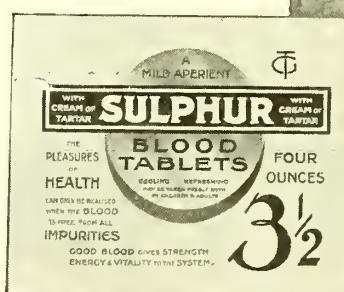
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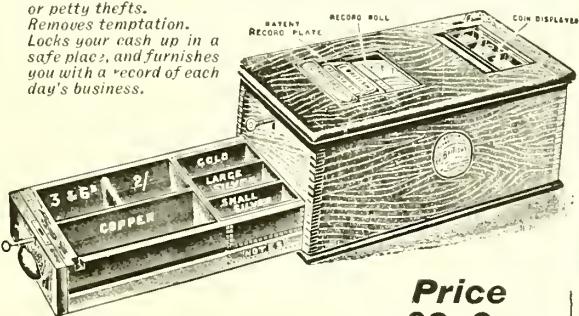
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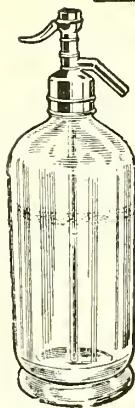
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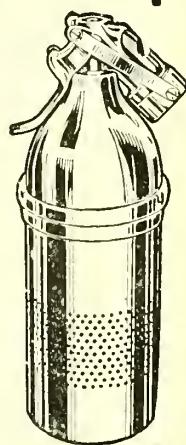
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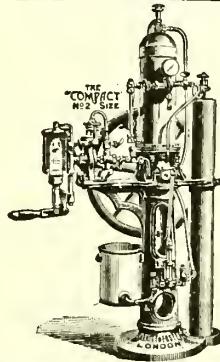
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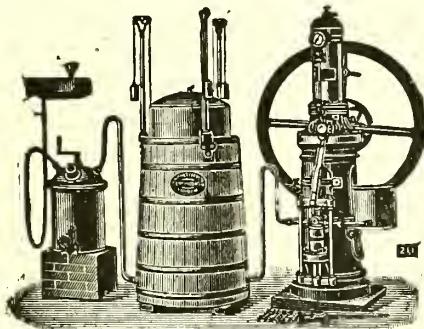
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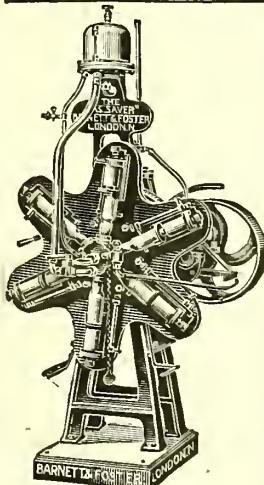
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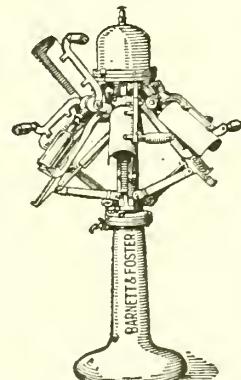
By Bottling on our Latest Types of
Filling Machines. We Guarantee the

Highest Quality Soda-water at 60-lb. Pressure!

thereby Saving Gas, avoiding Bottle-
breakage and improving quality
of Products. — The secret :

BACK PRESSURE—PROPERLY APPLIED.

Particulars of the "GAS-SAVER," for
filling Codd's and Niagara Bottles;
The "ROUNDABOUT," for filling
Corked, Crowned and Screw Bottles
sent on application.



SAVE MONEY.

THE "ROUNDABOUT,"
in 6 sizes, prices from £25

CATALOGUE of all our Manufactures, including Syphon-filling Machines, Syphons, all classes of Bottles, Modern Bottle-washing
Appliances, Ice and Refrigerating Plant, Essences, Flavourings and Drugs, and every requirement of the trade sent FREE on
application to—

NIAGARA WORKS, 26th EAGLE WHARF ROAD, LONDON, N.,
AND AT BOLTON, LANCS.

THE SACCHARIN CORPORATION, LTD.

SOLE MANUFACTURERS AND PATENTEES OF SACCHARIN
IN THE UNITED KINGDOM OFFER

SACCHARIN

in all strengths, qualities and packages, and for Export to ALL BRITISH COLONIES and ALL OVERSEA COUNTRIES (except U.S.A.).

Sole Export Agents : R. W. GREEFF & CO., Thames House, Queen St. Place, LONDON, E.C.

DIAMALT.

Malt Preparation of Highest Diastatic strength.

DIAMALT & PARAFFIN.

DIAMALT & COD LIVER OIL.

DIAMALT & OLIVE OIL.

DIAMALT & MILK.

DRY DIAMALT.

A Crystallised Extract of Malt.

Price Lists and Samples from

**THE SACCHARIN CORPORATION, LTD.,
36-37 Queen Street, Cheapside, E.C.**

TRIVALIN

(OVERLACH).

New Valerian Preparation.

HARMLESS SUBSTITUTE FOR MORPHIA.

NERVE TONIC AND ANODYNE.

Specially recommended in Inoperable Cancer, Gall-stone, Sciatica, Neuralgia.

In Ampuls (1cc.) for Hypodermic Injections.
In Coated Tablets for internal administration.

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**THE SACCHARIN CORPORATION, LTD.,
36-37 Queen Street, Cheapside, E.C.**

NOVOCAIN.

The Non-Irritant Local Anæsthetic.

GOLD MEDAL

at International Medical Congress,
London, 1913.

NOVOCAIN does not contain Cocaine.

Supplied to HIS MAJESTY'S WAR OFFICE, and H.M. INDIA OFFICE.

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36-37 Queen Street, Cheapside, E.C.**

TULLOCH'S ALLOYS.

GOLD ALLOY.

SILVER ALLOY.

COPPER AMALGAM.

Alloy Measuring Spoon and Mercury Measure.

Manufactured under scientific supervision
from published formulae exclusively for

**THE SACCHARIN CORPORATION, LTD.,
36-37 Queen Street, Cheapside, E.C.**

Award: London, 1881, "For Excellence of Quality."



TRADE MARK.

"ZINYL"

A Disinfectant, non-caustic, perfectly soluble in water, forming a milky, opalescent mixture which remains without separation. Carbolic Acid, on the contrary, sinks to the bottom and thus exerts but a limited effect.

"ZINYL" contains 16/17% of Tar Acids; much of the "cheap" rubbish sold does not contain 3%.

"ZINYL" is claimed to be one of the best and cheapest Disinfectants and Germicides on the market, and yields a good profit to the seller.

1/9 Gallon; 200 Gals. 1/7; 500 Gals. 1/6, Net.

40-gallon casks free. 5-gallon drums 3/6 each. 10-gallon drums 6/- each, F.O.B.

Also attractively put up in pint bottles, 7/- per dozen, Net.

"ZINYL" Surgical Fluid

This special miscible fluid has now a guaranteed co-efficiency of 18/20 on B. Typhosus, according to the Rideal-Walker test; in other words, the Surgical "ZINYL" IS NEARLY 20 TIMES THE STRENGTH OF PURE CARBOLIC ACID.

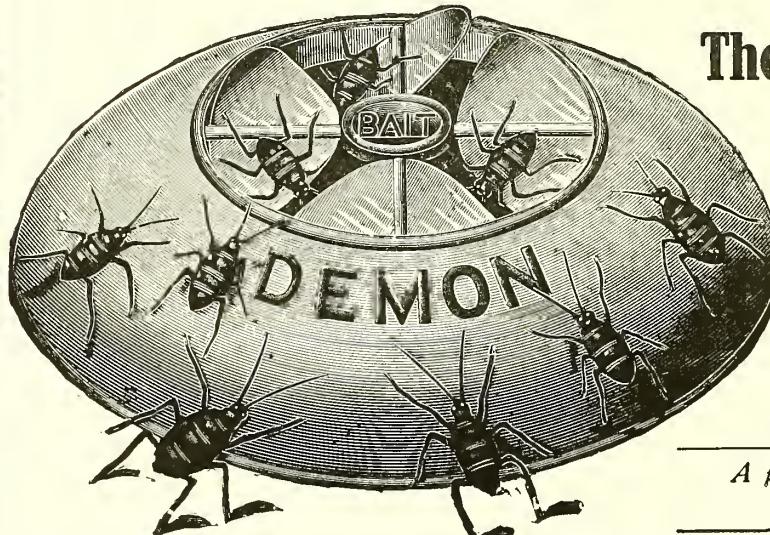
**20 oz. Bottles, 15/- doz.; 10 oz. 8/- doz.; 4 oz. 4/- doz.
5/- per Gallon, Net.**

H. E. STEVENSON & CO.

Manufacturing Chemists and Wholesale Druggists,

122 GREAT SUFFOLK ST., LONDON, S.E.

Chemists sell Beetle Powder WHY NOT BEETLE TRAPS?



The "Demon"

(REGISTERED
TRADE MARK)

BEETLE TRAP.

See that the name "Demon" is stamped on every trap.

*A profitable side-line
for all Chemists.*

JOSEPH SANKEY & SONS, LTD., BILSTON.

THOUSANDS OF RATS

"GREEDILY
EAT RODINE" AND
DIE.
REGISTERED TRADE MARK
It makes a Clean Sweep.

Attractively Advertised. Quick Selling.
Yields nearly 100% Profit.

Write for particulars to the Maker.

HARLEY, Manufacturing Chemist, PERTH.
Export Agents: Tozer, Kemble & Fisher, Ltd., 84 Fenchurch St., London.

STEINER'S VERMIN PASTE

Destroys RATS, COCKROACHES, &c.
Sold in 3d., 6d. and 1s. Glass Jars, and 2s. 6d. Tins.
Warranted for Home and Export Trade.

STEINER'S INSECT POWDER

KILLS BUGS, FLEAS, MOTHS, BLACKBEETLES,
AND ALL OFFENSIVE INSECTS.

Sold in 3d., 6d. and 1s. Tins with Perforated Tops,
and 2s. 6d. Tins.

Manufactured by **E. STEINER & Co.,**
Clemence Street, Limehouse, London, E.
ESTABLISHED 1866.

STOCK

"SANTAG"

Reg. Trade Mark

Because it commands a
PROFITABLE and READY SALE.

It is a purely Vegetable Preparation for the PREVENTION of the attacks and stings of Mosquitoes, Gnats, Ticks, Ants and all other Insects.

"Santag" has been tested, tried and proved throughout the World. Include a trial supply in your next order. It is prepared by

**Messrs. Burgoyne, Burbidges & Co.,
Coleman Street, LONDON, E.C.**

Sole Proprietors: The "SANTAG" CO., Braunton, Devonshire, ENGLAND.

Cinol

TINS

2 D.

the new preparation,
containing no poison,
for killing nits in child-
ren's hair, is now being
extensively advertised and
may be obtained through
any of the usual wholesale
houses, or direct from the
proprietor:

THOMAS KEATING, LONDON.

THE MIDGE PLAGUE.

Are you in a Midge-infected District?
If so, you will find

Gibbs's Insectol Registered A PRICELESS BOON.



Per dozen.
CREAM, 1/- Tubes, 7/3
FLUID, 1/- Bottles, 7/3

P.A.T.A. TERMS.

Attacks of Midges and Mosquitoes
absolutely warded off.

ENORMOUS SALES
GOOD SHOWCARDS
& DISPLAY MATTER

May we send you a sample half-dozen of each?

Use this Order Form.

To D. & W. GIBBS, LTD.,
Cold Cream Soap Works, London, E.

Please send me

1/2 dozen bottles Insectol 7/3 doz. }
1/2 dozen tubes Insectol Cream 7/3 doz. } 7/6 post paid

together with Display Matter and Handbills.

Signed.....

Address.....

Date.....

.....

N.B.—2 dozen free samples sent with 1 gross mixed order.

GOOD!

IT'S MASON'S

EXTRACT OF HERBS.

The Drink for
the Masses.

Millions of Glasses used
daily by workers all over
the Empire.



A
CONSTANT
USER SAYS :

Scole, Norfolk.

Gentlemen—

For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

I am, Sirs, yours truly, J. W.

Besides being a grand refresher, Herb Beer made from

**MASON'S
EXTRACT OF HERBS**
is cheap. For 2d. you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

Please allow us to Sample and Quote—

Citrate Magnesia

Health Salt

Salines

Liver Salt

Blood Salt

Sulph. & Sarsap. Salt

Lemonade

Crystals, &c.

**NEWBALL & MASON,
NOTTINGHAM.**

**HARVEY'S
GREAT REMEDIES FOR THE HORSE
WITH THE ADDED REMEDIES**
(Protected Prices)

HARVEY'S ACONITE POWDERS,

For Chronic Cough, Broken Wind, Roaring, &c.

HARVEY'S WORM AND CONDITION POWDERS.

**HARVEY'S WATTS' EMBROCATION, or
Curb Bottle.**

HARVEY'S WATTS' RED LOTION,
For Wounds.

HARVEY'S HAIR RESTORING OINTMENT.

**HARVEY'S EDOS, or Tasteless Purging
Powder.**

THE ADDED REMEDIES :
HARVEY'S KOPPOS POWDER,

For Lymphangitis or Weed, and Inflammations
generally. In Tins, 5/- and 10/- each.

HARVEY'S THRUSH SPECIFIC.

In Tins, 1/9 and 3/- each.

HARVEY'S HOOF OINTMENT.

In Tins 3/- and 6/- each.

Also

HARVEY'S HAIR RESTORER (Human),

A successful modification of the Veterinary Preparation.
In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

HARVEY & COMPANY, LTD., DUBLIN.



THE
"MILNER"
CLEANER
FOR
Straw Hats.

6th SEASON.

Send a trial order to-day.
You will be surprised how
it sells, and repeats.

Milner's Chemical Co.
Liverpool.

Hang the Wallpaper

WITH
"DAXO"

Adhesive Paste Powder

A 2d. Packet makes 2 gallons Perfect Paperhanging
Paste, simply with the addition of Boiling Water.

SOLE MANUFACTURERS—
HOLIDAY & CO., CITY MILLS, DURHAM.

DANYSZ VIRUS

Is on the P.A.T.A. List.



Retail Prices:

2/- per single tube,
5/- for three tubes.

Leave you a Profit of 75% and 50% respectively.

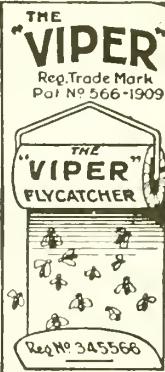
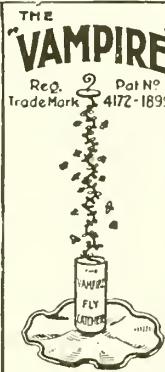
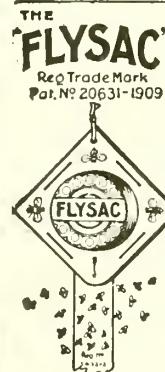
LIQUID VIRUS for large applications at 7/6 bottle, making about 5 lb. of bait.

SHOWCARDS, Dummy Boxes, Clockwork Cats for Window Display, Circulars, Postcards, &c., on application.

Through your Wholesale House, or direct from

DANYSZ VIRUS, LTD.,
(Dept. 352), 52 Leadenhall Street, LONDON, E.C.

An UP-TO-DATE CHEMIST makes something out of the present demand there is for GOOD FLYCATCHERS, i.e. those made by KAY BROTHERS, LIMITED, of Stockport. They take up little space in the shop; are neat, clean, and effective in use, and carry a LARGE PROFIT on their resale.



Send for a gross.
THEY HAVE COME TO STICK!

Above are illustrations of the chief marks we supply, and they are stocked by the best houses throughout the country. Prices on demand.

SOLE MAKERS:

KAY BROTHERS, Ltd., STOCKPORT.

Nat. Tel. : 247.

Telegrams: "Kay Stockport."

The Best of all Fly Catchers



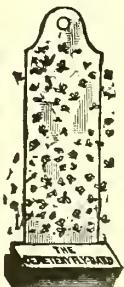
TUNBRIDGE & WRIGHT'S Fly Cemetery

The original and best of all Sticky Fly Papers, 5/- per gross net, carriage paid. Cash with order.



TUNBRIDGE & WRIGHT'S Cemetery Fly Band

Very neat, simple, and efficacious, 6/- per gross net, carriage paid. Two gross lots and up 6/- per gross, carriage paid. Cash with order.



TUNBRIDGE & WRIGHT'S Cemetery Fly Band

The neatest, simplest, and cleanest of all band catchers. Packed in boxes containing three dozen. 7/- per gross net, carriage paid. Cash with order.

TUNBRIDGE & WRIGHT READING

London Depot—20 LITTLE BRITAIN, E.C.
N. of England—4 Gallowgate, NEWCASTLE-ON-TYNE
Telegrams: "FLIES READING." Telephone: 496 Reading.



Toogood's Floral Crystal Bath Salts



2129.

No. 2429.

Square Bottles, fitted Boxwood-top Corks, Artistic Labels, finished either Brown or Green Ribbon.

Assorted Odours—

Lavender, Cologne, Violet, Verbena, Oriental, Rose or Pine.

9	18	36	ounces.
10/6	18/-	34/-	dozen.

SHOWCARDS SUPPLIED.



2430.

No. 2430.

Round Bottles, fitted Boxwood-top Corks, Artistic Labels, finished either Brown or Green Ribbon.

Assorted Odours—

Lavender, Cologne, Violet, Verbena, Oriental, Rose or Pine.

8	16	32	40	ounces.
7/6	13/-	26/-	36/-	dozen.
60	80	160	ounces.	
48/-	62/-	120/-	dozen.	

Customer's name, etc., printed on labels for orders of two dozen assorted of either style.

SHOWCARDS SUPPLIED.



2518.

No. 2518.

Water Softener.

In Green or Brown Wood Veneer Boxes.

Assorted Odours.

½ lb., 4/6. 1 lb., 7/6 dozen.
Customer's name on two dozen assorted.

MANUFACTURED ONLY BY

William Toogood, Ltd.
77 Southwark Street, London, S.E.

K Y H O

Registered.

(Protected by the P.A.T.A.)

The Wonderful New HAIR RESTORER

Cooling and refreshing to the scalp, promoting new growth and restoring the natural vigour of the Hair.

Sold in bottles, 2 6; minimum retail price, 2 3.
To the Trade, 21/- per doz from all the leading Wholesale Houses, or from the

KYHO PROPRIETARY, Ltd., 17 Victoria St., S.W.

A Special BRILLIANTINE and a SHAMPOO FLUID are also supplied to be used with KYHO. 1/- per bottle; 9/- per doz to trade.

For further particulars see our full page advt. in "The Chemist & Druggist," March 30, 1912.

SUPPORT HOME INDUSTRIES.

Estd. 1777.



Inc'd. 1900.

Winter Issue, 1914, pp. 76, 77.
Diary, 1914, pp. 120, 121.

**BUY
KENT'S
BRUSHES.**

EVERY GENUINE PACKAGE



EWEN'S LARO

is the
ONLY LARD
that

is made exclusively
for pharmaceutical
and Perfumery
preparations
and is the
BEST AND
MOST RELIABLE

Guaranteed B.P.
Lard on the Market.

SITES for WORKS, FACTORIES, WAREHOUSES, etc.,

ADJOINING THE

GREAT WESTERN RAILWAY.

Within the extensive districts served by the Great Western Railway Company's system of upwards of 3,000 miles of railway, there are in various localities considerable areas of available land admirably situated and otherwise suitable for the establishment of Works, Factories, etc., in connection with different kinds of Industrial undertakings. These sites are within easy access of some of the principal Ports, Coal and Ironstone Fields, and Iron and Steel producing centres.

Information regarding suitable sites, siding facilities, conveyance rates, etc., will be readily afforded on application to

Mr. G. A. ROBERTS, Paddington Station, W.

FRANK POTTER, General Manager.

BAISSL BROTHERS & STEVENSON'S

EFFERVESCENT

CARLSBAD SALT

This is a most attractive and paying line, prepared according to our analysis of the celebrated Carlsbad Springs. It keeps admirably, contains no sugar, and does not cake. It is by far the best Carlsbad Salt you can offer your customers.

PRICE.

In 8-oz. Square Plug Cheltenhams.
(Note size—8 fluid ounces.)

10/- per doz. net.

Special quotation given for 6 dozen lot and upwards.

In 3 Styles, Black and Gold, Green, and Red and Blue Cartons.

"OWN NAME."

Chemist's own name printed on orders for 3 dozen upwards.

SHOWCARDS.

Attractive Showcards supplied.

Syrup of Figs is another of our preparations in large and growing demand.

In panelled flats in handsome Cartons, 3-oz. 4/6, 6-oz. 7/6 per dozen.
Guaranteed to keep in any climate.



Baiss Brothers & Stevenson

Limited.

MANUFACTURING CHEMISTS & WHOLESALE DRUGGISTS

174-175 Grange Rd., Bermondsey, London.



The number of dentifrices is myriad, their names are legion.

But—

in principle and in efficiency there is but one,

CALOX

THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, London, Eng.

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, London.

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A. plan.

McKESSON & ROBBINS, New York, U.S.A. Manufacturers.

BRITISH DEPOT—G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.

FASHIONS CHANGE!

and let us be thankful for it.

TO-DAY the fashion is

SOLID FACE POWDER (POUDRE COMPACTE)

**Bourjois of Paris
is the
Powder House.**

Our Solid Powder, with Puff,
No. 65
IS THE BEST.



MADE IN SEVEN TINTS.

ROSE, NATURELLE,
RACHEL, BLANCHE,
ROSETTE BRUN,
OCREE, & MAUVE.

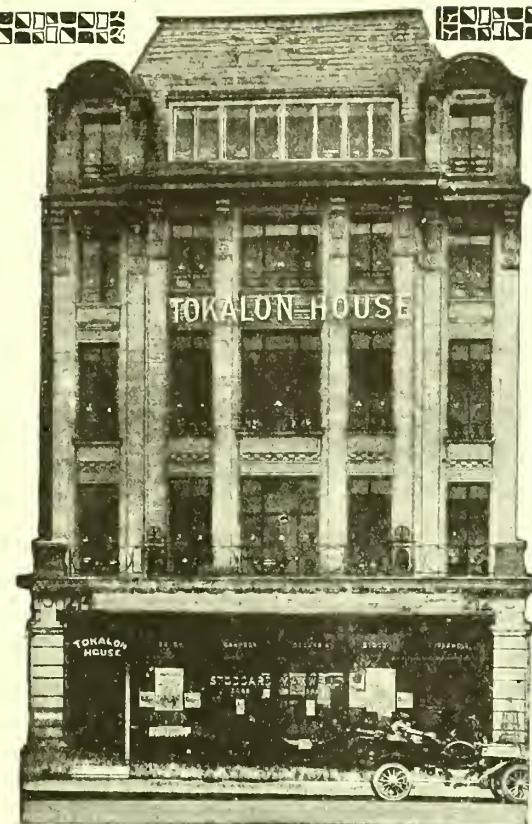
6s. per dozen.

1 Gross lots can be printed with customer's own name.

DO NOT BE MISLED BY BUYING CHEAP AND WORTHLESS IMITATIONS OF THIS ARTICLE.

May be obtained from all the Wholesale London and Provincial Houses, or from

HENRY C. QUELCH & CO., 4 Ludgate Square, LONDON, E.C.



The House.

From the House of Tokalon emanate some of the finest selling lines at present on the market. Any chemist starting in business should consider his stock incomplete without them, because the demand is a large and ever-increasing one. It is unwise for any old-established chemist to be without them, because he will assuredly lose the big sales that result from Tokalon advertising.

Its Products.

There are many Tokalon Products, but at present we only propose to deal with four of the principal lines. Prices are given below, and it may

be added that every chemist is absolutely protected in stocking any of these preparations. We will always accept the return of unsold stock, either for exchange or reimbursement, whichever you prefer.

LAVONA HAIR TONIC

SMALL SIZE
26/- Per Dozen.

LARGE SIZE
37/6 Per Dozen.

LAVONA DE COMPOSÉE

14/-
Per Dozen.

FLOWERS OF OXZOIN

14/-
Per Dozen.

BISURATED MAGNESIA

Mint-Flavoured Tab'ets,
10 6 & 20/6
Per Dozen.

Powder,
17 - & 26 6
Per Dozen.

Effervescent Tablets.
37 6 Per Dozen.

Any quantity sent carriage paid by—

TOKALON LIMITED,

212/214 Great Portland Street,

LONDON, W.

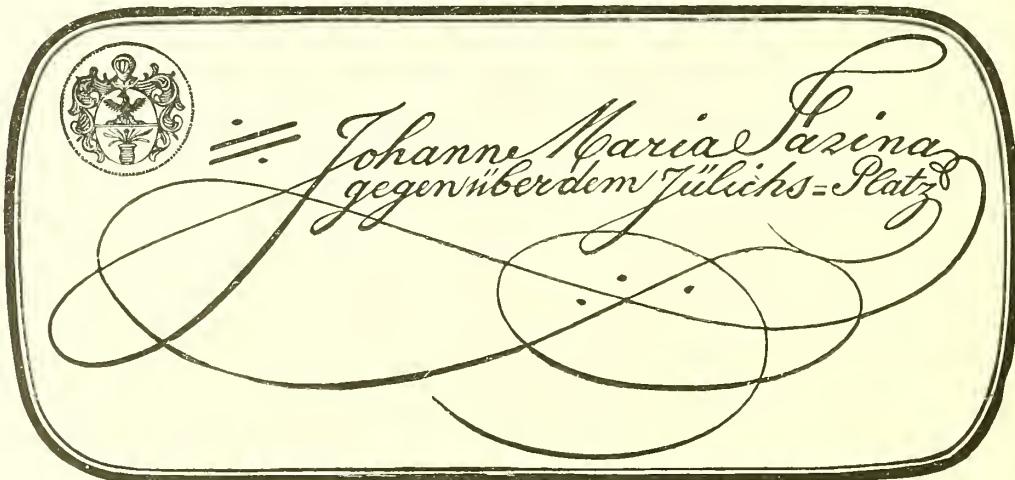
BY APPOINTMENT
TO



HIS MAJESTY THE
KING.

THE ORIGINAL RECEIPT
FOR THE MANUFACTURE OF
The "GENUINE" EAU DE COLOGNE
OF
**JOHANN MARIA FARINA,
GEGENÜBER DEM JÜLICH'S-PLATZ,
COLOGNE,**

has been a family secret since the year 1709,
for over 200 years. This is the label:—



We
DISTIL AND IMPORT
 Volatile Oils for you.

Almond.	Dill.	Palmarosa.
Anise.	Elderflower.	Parsley.
Bay.	Fennel.	Patchouli.
Bergamot.	Geranium.	Peach Kernel.
Birch.	Ginger.	Pennyroyal.
Buchu.	Hops.	Pepper.
Cajuput.	Juniper Berry.	Peppermint.
Caraway.	Lavender.	Pimento.
Cardamom.	Lemon.	Pine.
Cascarilla.	Lemongrass.	Rosemary.
Cassia.	Limes.	Sage.
Celery.	Mace.	Sandalwood.
Chamomile.	Musk Seed.	Sassafras.
Citronella.	Mustard.	Savin.
Cinnamon.	Neroli.	Spearmint.
Clove.	Nutmeg.	Thyme.
Coriander.	Orange.	Valerian.
Cubeb.	Orris.	Veti Vert.
Cumin.	Origanum.	Wormwood.

STAFFORD ALLEN & SONS, Ltd.

Established 1833.

Distillers and Importers of Volatile Oils.

FLOWER FARMS AND DISTILLERY: LONG MELFORD, SUFFOLK.

REGISTERED OFFICES:

COWPER STREET, LONDON.

CLAUDE RAYNAUD & CIE GRASSE, FRANCE.

NEW CREATIONS:

Violette Victoria, Ixia Lys,
No. 15, Orchidée Royale,

— OF THE HIGHEST CONCENTRATIONS —
and all the usual Perfumes of the very finest quality.

London Depot: 100 BERMONDSEY ST., S.E.

No other German or European house can offer you same qualities, at same prices, and in such varied assortment:

POWDER PAPER, NAIL POLISHING PAPER, NAIL POLISHING STONES

Please ask for prices and samples—

PHARMAZETISCHE INDUSTRIE-GESELLSCHAFT,
OFFENBACH-AM-MAIN.

Sole Agent for the United Kingdom:—

FRANK A. CONDUIT, Sutton House, 2 Old Street, E.C.

(2)

Our ROSE, JASMIN & NEROLI Synthetics

can be used in the place of the Natural Oils to great advantage, at a much cheaper cost.

BLUE BAND BRAND

SICILIAN ESSENTIAL OILS,

guaranteed absolutely pure, from our own works in Messina.

DIRECT IMPORTERS OF FINEST VALENCIA SAFFRON,

guaranteed genuine B.P.

SAMPLES AND PRICES ON APPLICATION.

FELICE BONAVVENTURA & CO.,

98 Great Tower Street, LONDON, E.C.

Telephone No.: Avenue 2743.

Telegraphic Address: "Felibona London."

Ask for General Price List.

THE LESCOLE PERFUMERY CO.

beg to announce that in addition to their well-known popular lines they now have an extensive range of

NEW LINES.

Before placing orders, BUYERS will be well advised to send a card stating requirements, when a price list with coloured illustrations of those suitable to their market will be sent immediately.

Orders dispatched in rotation; to ensure early delivery write at earliest opportunity to:—

THE LESCOLE PERFUMERY CO.,

LOMOND GROVE,

CAMBERWELL GREEN,

LONDON, S.E.

Telephone: 810 Hop.

Telegrams:

"VANILLIN-CAMBER, LONDON."



"DUCHESS"

REGD.

2d. TOILETS

18 VARIETIES

The best selling 2d. Soap
on the Market

On P.A.T.A. NO CUTTING
Sale reserved to Chemists exclusively

First sample gross orders
will be sent Carriage Paid

Erasmic, Perfumers,
WARRINGTON

LATEST FINE SELLING NOVELTY
HAYDEN COFFIN
TOOTH POWDER
COMPRESSED, PTD.

(From a Prescription of his father, Dr. C. R. COFFIN),
NOT A SOAP. NOT A PASTE. UNIQUE ARTISTIC PUT-UP.

Now on Sale at

BARKER'S, HARRODS', SELFRIDGE'S,
WHITELEY'S, ARMY & NAVY STORES,
and leading WEST-END CHEMISTS.

ALSO THE

HAYDEN COFFIN

HYGIENIC TOOTH BRUSH (Rgd.)

Retail Prices:

POWDER, 2s. 6d. BRUSH, 1s. 1d.

Trade Supplied by

HAYDEN COFFIN T. P.
39 VICTORIA STREET, LONDON, S.W.

*It pays to give good
value to your
clients.*

They come again.

Proprietors of:
'PAPYROLES,' 'JAPYROLES,'
and many other well-known Brands of TOILET PAPERS.



Niagara Mills'
TOILET PAPERS

6d. & 1s. Cartons are the best.

Per doz. ... 4s. and 8s. 6d.

TERMS: 5% MONTHLY ACCOUNT.

Wholesale only from Proprietors:

FRANCIS NEWBERRY & SONS, LTD.
27 & 28 CHARTERHOUSE SQ., LONDON, E.C.

AIDS TO SELL ANZORA CREAM

We want Thursday, July 2, to be known as "Anzora Day." On that day we have a whole front page advertisement in the "Daily Mail." We reckon to beat all sales records then, and to help the retailer we are advertising extensively.

Look at the illustrations here:—

- No. 1 Is a reproduction of the whole front page. The average circulation of the "Daily Mail" is about 850,000. All these people will see this advertisement. You can have reproductions of it for your window, so that readers of the "Daily Mail" will connect *your* shop with the advertisement.
- No. 2 Is a Poster 20 x 30 inches, which is being shown on all the London Underground Stations and on the Buses. It is going to awaken curiosity and influence sales.
- No. 3 Is a little counter or window Cut-out. You're welcome to some.
- No. 4 Is a 4-pp. Leaflet all about Anzora. You can have *your* name printed on these.
- No. 5 Is a Cut-out with bottle display. Yours for asking.
- No. 6 Is a Counter or Wall Card with a bottle of Anzora attached. Have one in your shop.
- No. 7 Is a Lithographed Card showing how useful Anzora is.
- No. 8 Is a smart Cut out showing three men who use Anzora.
- No. 9 Is a Window Slip, "This is Anzora Day." Put this on your window and get trade.

It is not too late to order your stock. Send to-day to your usual wholesaler for supplies, and to us for Showcards, literature, &c.

TRADE TERMS ARE:

11/6 per dozen, retailed at 18/-
19/6 " " " 30/-

10% discount on orders of three dozen or more.

ANZORA PERFUMERY CO.,
32-34 WILLESDEN LANE LONDON, N.W.

ROBARE'S AUREOLINE Or GOLDEN HAIR WASH.

4-oz. Bottles, 33/- 10-oz. Bottles, 66/- per doz.

Wholesale from R. HOVENDEN & SONS, LTD., and from all the principal Patent Medicine Warehouses in London.

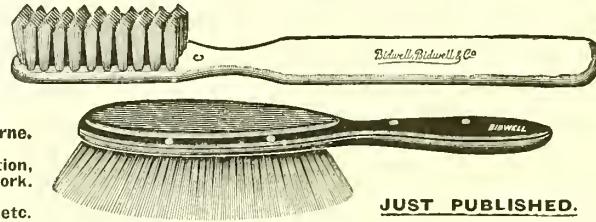
**AMAMI
MANICURE PREPARATIONS
ARE THE BEST.**
PRICHARD & CONSTANCE, 469 Holloway Rd., London, N.
SPECIALITY—AMAMI NAIL POLISHING STONE.

**BRILLIANT PLATE.
"ALBATUM OR WHITE ROUGE"**
GIVES A UNIQUE POLISH TO ALL SILVER AND ELECTROPLATED GOODS.
In 6d. and 1/- Boxes, and Tins, 2/-
BRADLEY AND BOURDAS,
6 PONT STREET, S.W.



Established 1839.

BIDWELL'S TOILET BRUSHES



JUST PUBLISHED.

Australian Agents:
Potter & Birks, Ltd., Sydney.
Rocke, Tompsett & Co., Melbourne.
U.S.A. Agents:
Druggists' Supply Corporation,
118 William Street, New York.
Canadian Agents:
H. F. Ritchie & Co., Toronto, etc.
BUSH LANE HOUSE, CANNON STREET, E.C. Send for NEW CATALOGUE. It will interest you!



GOLD MEDAL
awarded
International Exhibition.

Works:
AXMINSTER,
DEVON.

"PROVIDOL" SOAP

FOR THE RATIONAL CARE OF THE SKIN.

WINDOW DISPLAY COMPETITION

CASH
PRIZES

104

CASH
PRIZES

First Prize	- - -	£50
Second	„	£25
Third	„	£10

Fourth Prize	- - -	£5
AND		
One Hundred Consolation Prizes		£1 1 0

COST PRICE. FOR ORDERS OF ONE GROSS. SELLING PRICE.

	£	s.	d.		£	s.	d.
9 doz. Tabs. PROVIDOL SOAP at 4/- per doz. ...	1	16	0	9 doz. Tabs. at 6d. each... ...	2	14	0
3 " " 6.8 " ...	1	0	0	3 " 10d. ...	1	10	0
	2	16	0	BONUS FOR { 2 doz. Tabs. at 6d. each ...	12	0	
Discount 10 per cent. ...	5	8		WINDOW { $\frac{1}{2}$ " Cream, 6d. ...	3	0	
Net cost ...	£2	10	4	DISPLAY $\frac{1}{2}$ " 1/- ...	6	0	
					£5	5	0

PROFIT - **52 per cent.**

FOR ORDERS OF THREE GROSS.

	£	s.	d.		£	s.	d.
2 $\frac{1}{2}$ gross Tabs. PROVIDOL SOAP at 4/- per doz. ...	6	0	0	2 $\frac{1}{2}$ gross Tabs. at 6d. each	9	0	0
1 $\frac{1}{2}$ " " 6.8 " ...	2	0	0	1 $\frac{1}{2}$ " 10d. ...	3	0	0
	8	0	0	BONUS { 4 doz. Tabs. at 6d. each ...	1	4	0
Discount 15 per cent. ...	16	0		FOR { 3 " 10d. ...	1	10	0
	7	4	0	WINDOW { 3 " Cream, 6d. ...	18	0	
,, 5 per cent. ...	7	3		DISPLAY { 2 $\frac{1}{2}$ " 1/- ...	1	10	0
Net cost ...	£6	16	9		£17	2	0

PROFIT - **60 per cent.**

FOR ORDERS OF FIVE GROSS.

	£	s.	d.		£	s.	d.
4 gross Tabs. PROVIDOL SOAP at 4/- per doz. ...	9	12	0	4 gross Tabs. at 6d. each	14	8	0
1 " " 6.8 " ...	4	0	0	1 " 10d. ...	6	0	0
	13	12	0	BONUS { $\frac{1}{2}$ gross Tabs. at 6d. each ...	20	8	0
Discount 15 per cent. ...	2	0	10	FOR { 10d. ...	1	16	0
	11	11	2	WINDOW { $\frac{1}{2}$ " 10d. ...	3	0	0
,, 5 per cent. ...	11	6		DISPLAY { $\frac{1}{2}$ " Cream, 6d. ...	1	16	0
Net cost ...	£10	19	8		3	12	0
					£30	12	0

PROFIT - **65 per cent.**

Sole British Agent and for Export Trade—

W. BONSER HAYWARD, 17 LAWRENCE LANE, E.C.

Telegrams: "BONSERAYAR, CENT, LONDON."

Telephone: BANK 8507.

BEFORE
PLACING YOUR
ORDERS FOR

PETRO. JELLY

WRITE TO

Schliemann's Oil & Ceresine Co., Ltd.

Tel. No.: 5411 Avenue.
Tel. Add.—"Mannschle."

London House, 3 New London St., E.C.

(2)

Petrolatums, B.P., and
Commercial Qualities,
White, Cream, Yellow.

METHYLATED SPIRIT

Buy from one of the Oldest Houses in the Trade.
Write for Prices.

ESTABLISHED 1794.

SAMUEL THORNLEY, LTD., BIRMINGHAM

6d.



Make your old
Hat a new one.

In bottles, 6d. each, in
separate neat cartons,
with suitable br.sh.

These Dyes are a distinct
invention, dyeing the straw
without an objectionable
varnished appearance,
and producing the effect
of new goods.

—
NO GLOSS.
—
NO POLISH.
—

On the
P.A.T.A.

Write for terms,
patterns, also leaf-
let of testimonials.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.
London Depot: 60-2 CLERKENWELL ROAD, E.C.
Special Non-Inflammable Series for Export. Est. 1878.
Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

ACETYL CELLULOSE
FOR ALL PURPOSES.

IN LARGE OR
SMALL QUANTITIES.

Safety Celluloid Company, Ltd.
8 Laurence Pountney Hill, Cannon St., London, E.C.

'SEMREH'

THE LAST WORD

in Bottle Cappings. Air-tight, spirit-
proof, easy to put on, self-fitting: the
bottle's contents hermetically sealed.

Use 'SEMREH' HALF-CAPS for PERFUMERY
Full particulars on request.

The VISCOSE DEVELOPMENT CO.,
Ltd.,

Penbroke Road,
BROMLEY, KENT.



An Opportunity

now presents itself for Chemists to sell the popular

GANESH PREPARATIONS OF Mrs. E. ADAIR,

the well-known Specialist in Beauty Culture, of **92 NEW BOND STREET, LONDON, W.,**
Paris and New York.

C These preparations are patronised by Royalty and the leading society ladies of England and abroad and have the recommendation of the Medical Faculty.

C The Ganesh Preparations should prove a remunerative line to Chemists and Drug Stores, as many ladies will avail themselves of the opportunity of purchasing locally.

Extensive publicity is given each week in the leading ladies' journals.

CANESH EASTERN OIL

is a wonderful success for removing lines, hollows, &c., making the skin firm, fresh, and healthy. Restores the youthful complexion. Sizes, 5/6 to 30/6.

CANESH LILY LOTION

is a leading skin doctor's prescription, made in different shades to suit all skins; is most refreshing and beautifying. Preventative against Mosquito and Midge bites. Invaluable for motoring and driving. £/6 to 10/6.

CANESH DIABLE SKIN TONIC.

An infallible remedy for toning, strengthening, and whitening the skin. Prevents cold winds or sunburn from harming the complexion. Sizes, 5/6 to 21/6.

CANESH PATENT CHIN STRAPS

to be worn during sleep. Restores youthful contours, removes double chins. Made in specially prepared and ventilated elastic, and are soft, light, and comfortable. 21/6; 25/6.

**For Catalogue of other Preparations, together
with advantageous trade terms, apply Mrs. Adair,
92 New Bond Street, London, W. 'Phone—Ger. 3782.**

A. W. SCHWARZ

SYNTHETIC PERFUMES

Abricotine, Amber
Ambrette, Ambretteine
Apple Blossom
Bergamott (Artificial)
Biancol, Briosine
Bouvardine, Capucine
Carnation, Cassie
Castoreum
Chirassol, Citral
Clover (Tréfle)
Coumarine, Cyclamine
Fern liquid
Fixateur, Fleuréol
Gardenia, Genetol
Gereniol, Glycine

Géranium-Roseine
Heliotrope (white)
Heliotropine, Honey
Honeysuckle
Hyacinth, Indoï
Irine A., Irine B.
Irine C., Irine D.
Iris of Florence
Liquid Lavender
Linalool
Lilac Flower
Lily of the Valley
Lime Flower (Tilleul)
Mignonette (Réséda)

Price List and Samples on demand.

Chemical Manufactory, ALTSTETTEN-ZURICH, SWITZERLAND.

Specialities :

Mimosa, Musc C.
Musc Xylène
Musc liquid
Monoviola
Narcissus, Neroli
New-Mown Hay
Pelopomine
Peony
Radialine, Raldiné
Rose de Dijon
Rose d'Orient
Roseine
Royal Oak
Safranor

ESSENTIAL OILS

Special Violet
Sweet Pea
Thyme, Treffies
True Violet
Tuberose
Vanilline
Violet Flower
Violet Verdure
Violet d'Azour
Wallflower
White Violet
Ygeana
Ylangol (artificial)
Yranol

COMPRESSED POWDER

in best quality, in all sizes
and colours, perfumed and
non - perfumed, supplied
cheaply and well by

KOPP & JOSEPH, *Perfumery
Manufacturers,*
POTSDAMERSTR. 122, BERLIN, W.

Ask for free samples.



WILLIAM LASSON'S Hair Elixir

has a 30 years' reputation as an
Unique Hair Producer.

All wholesale houses supply it.
Chemists & Druggists
should apply for

COLOURED ART PRINT,
a great help in pushing its sale.

Post free. Write to-day to

SOLE CONSIGNEE:
M. LINDNER,
FARRINGDON AVENUE, LONDON, E.C.

VANISHING CREAM

NON-GREASY, PINK OR WHITE

During the past few years has entirely superseded greasy and fatty Toilet Creams. Owing to the exceptional demand we have had for this preparation, we have laid down a special plant and can supply in bulk on the best terms, and incorporate any perfume required.

Packed in Tubes and Opal Pots.

Tin Tubes 3/- per doz., 33/- gross ; large size, 60/- gross.

Opal Pots, 1 oz., 3/6 „ 39/- „ 78/- „

Also in 7 lb., 14 lb., 28 lb., and 1 cwt. drums.

*SEND FOR A SAMPLE AND ASK FOR FULL PRICE LIST
OF OUR PREPARATIONS. IT WILL PAY YOU TO DO SO.*

J. KNOX-WALKER & CO., LTD., Manufacturing Chemists,
422 KINGSLAND ROAD, LONDON, N.E.

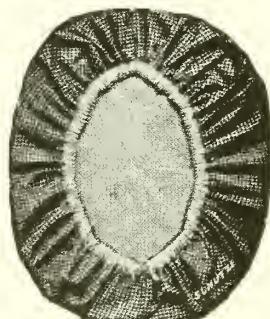
SAMUEL VAUGHAN, *Managing Director.*

THIS SEASON'S DEMAND FOR

BATHING CAPS

is greatest for those of oval shape, fitting the head. Narrow pleated HEAD-BANDS with ADJUSTABLE ELASTIC.

All F.S. models are still unsurpassed in MODERN DESIGN, SHAPE and FINISH.



In Assorted Colours.

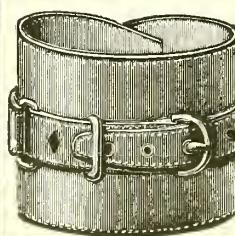
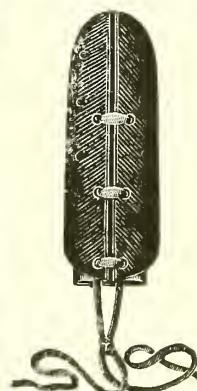
Nos.		Sizes	2	3	4
W. 28/2	... Check Sheeting	...	3/6	4 3	5/3
W. 28/4	... Twill Check	...	4/6	5/3	6/6
W. 28/14	... Silk	...	9/-	11/3	14/6

Discounts on Application.

F. SCHUTZE & CO.'s Showrooms are replete with the various kinds of Bathing Caps, Sponge Bags, Tourists' Travelling Rolls and numberless other Toilet Requisites of which they are the ACTUAL MANUFACTURERS.

F. SCHUTZE & CO., LTD.
Black Bull Works, Caledonian Market, LONDON, N.

**PAROUBEK'S
"FOLDO"
LACING
FINGER
STALLS**
(BLACK OR TAN)
3/9 PER DOZEN.



**PAROUBEK'S
"TRIUMPH"
WRIST STRAPS**
(Felt lined). 3/9 per doz.

BOTH THE BEST.

Of all Wholesale Houses.
Sole Consignees for Great Britain
and Colonies:

SOLPORT BROS.
184-190 GOSWELL RD.,
LONDON, E.C.

The Colleen is charming

and the beautiful drawings of her in colours and in black and white which are appearing in all the high-class periodicals are charming also, and sure to attract the right sort of attention to McClinton's Toilet Preparations, and bring fresh customers into your shop.

And because of the unusual charm of McClinton's Colleen Soap and Toilet Preparations these customers will come again.

It will therefore pay you to have a full range of McClinton's Preparations on hand.

And remember, the profit to you is above the average.



"As dainty and sweet as an Irish Colleen."

McClinton's Colleen Soap and Toilet Preparations*

FREE FROM ANIMAL MATTER OR MINERAL SODA

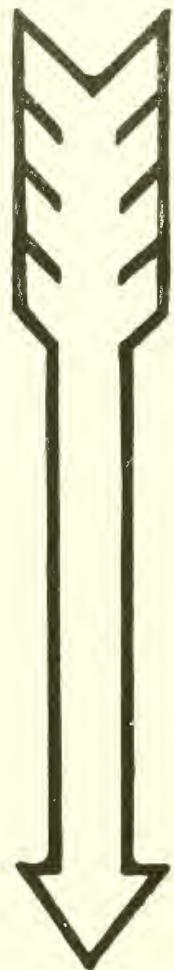
Used and recommended by some 200 members of the British Aristocracy, and our guarantee of satisfaction or money refunded covers every preparation we manufacture.

McClinton's "Colleen" Soap, box of three cakes, 1/-, McClinton's Toilet Cream, 1/-, McClinton's Talcum Powder, in tins, 9d. McClinton's Tooth Powder, in tins, 6d. McClinton's "Hibernia" Shaving Stick, 1/-, McClinton's Shaving Cream, in open jars, 6d. and 1/-, McClinton's "Colleen" and "Sheila" Perfumes, 1/-, 1/6, 2/6, and 4/-. "Colleen" Shampoo, wet and dry, 2d. a packet, 7 for 1/-.

Write to-day for Price List and Trade Terms.

McClinton's, Ltd., Donaghmore, Ireland

PAYS THREE WAYS



1. 100 % GUARANTEED PROFIT.

Eucryl is on the P.A.T.A. list. There's no risk—no price cutting. Your profit is a dead certainty—and it's 100% *every time—all the time.*

2. REPEAT ORDERS.

Eucryl assures the "once used always used" habit. Its quality is so good that it allows you the 100% profit and *yet* satisfies those who use it—bringing them back for more.

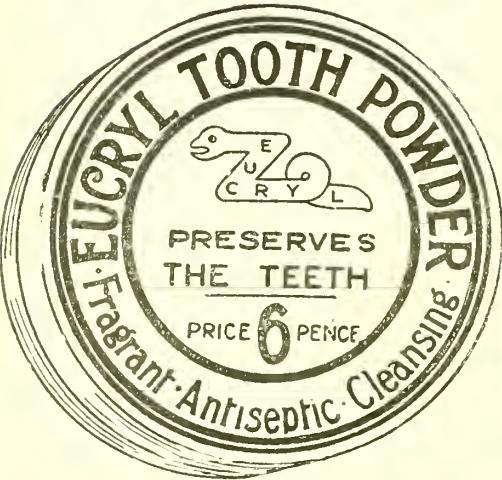
3. NEW CUSTOMERS.

Eucryl sales have a cumulative effect—every user is a salesman and recommends it to relatives, friends and acquaintances. Eucryl doesn't need pushing—it sells itself.

Accept this BONUS OFFER

Send an opening order for three dozen and we will include one dozen 6d. tins extra and free of charge. (This offer of one dozen 6d. tins free also applies to all repeat orders of six dozen at 3/6 per dozen, net, carriage paid.) Free samples, showcards, advertising matter—Selling Helps—supplied with every order for "The Dentifrice paying 100% Profit!"

EUCRYL, LIMITED, 61/63 Lant Street,
Southwark, London, S.E.



EUCRYL TOOTH POWDER

SOME OF THE "VASELINE" SPECIALITIES AND THEIR PRICES.

Yellow.

PENNY TINS ...	... 7/- per gross.
TWOPENNY TINS ...	... 13/- "
No. 1 size, in boxes of 1 gross	... 18 6 "
" 1 " 3 dozen	... 18 9 "
" 2 " 1 "	... 37 - "
Collapsible tubes, No. 1 size, 2/6 .	No. 2 size, 5/- doz.
No. 1 size, bottle, in cardboard case	... 3/- per doz.
" 2 " "	... 5/- "
½-lb. tins, round	... 6/3 "
1 " square	... 10/6 "
5 " "	... 30/- "
10 " "	... 5/- per tin.
25 " "	... 12/- "
50 " "	... 23/- "

White.

Twopenny Tins (three doz. in box)	... 13 6 per gross.
Collapsible tubes, No. 1 size	... 3/6 per doz.
" 2 "	... 5 6 "
Blue Seal, in bottle, carton	... 3 6 "
No. 1, 3-oz. size, in cartons	... 6/- "
" 2, 6-oz.	... 10/- "
½-lb. tins, round	... 10/- "
1 " square	... 20/- "
5 " "	... 60/- "
10 " "	... 9 3 per tin
25 " "	... 22/- "
50 " "	... 41 8 "

Red or Veterinary.

½-lb. tins, round	... 4/- per doz.
1 " square	... 5/6 "
5 " "	... 22/- "
10 " "	... 3 6 per tin.
25 " "	... 7 6 "
50 " "	... 13 4 "
Half-barrels, about 1½ cwt.	... 28/- per cwt.
Barrels, about 3 cwt.	... 24 6 "

Carbolated-Veterinary.

1-lb. tins ...	... 6/- per doz.
5 " "	... 2/- per tin.
10 " "	... 3/8 "

Sulpho for Dogs.

In jars ...	... 9 3 per doz.
In 5-lb. tins	... 4 8 each.
10-lb. tins ...	... 8 3 each.

White Liquid.

No. 0 size bottle	... 8 3 per doz.
" 1 "	... 16 6 "
" 2 "	... 24 9 "
5-lb. tins ...	... 8/6 per tin.

Collapsible tubes, including Government Stamp.

Analgesic.

Borated.

Camphorated.

Capsicum.

Carbolated.

Mentholated.

Oxide of Zinc.

Perfumed White.

Collapsible Tubes ...	... 4/6
No. 1 (bottle in carton) ...	... 8 6 per doz.
No. 2 size, handsome bottle in carton, with glass stoppers ...	... 12 6 "

Hair Tonic.

No. 1 size ...	... 9/- per doz.
" 2 "	... 18/- "

Pomade.

No. 1 size, in boxes of 1 gross ...	... 20/6
" 1 " 3 dozen	... 21/-
" 2 " 1 "	... 2 10 per doz.
Collapsible tubes ...	... 2 10 per doz.
No. 1 size, bottle, in cardboard case	... 3/11 "
" 2 " "	... 7 10 "
White and Quinine Pomade ...	... 8/6 "

Perfumed Oil.

One size, in bottles (for the Hair) 7/- per doz.
---	------------------

"Vaseline" Soaps.

UNSCENTED.

3d. tablets, boxes of $\frac{1}{2}$ doz. tablets, 27/- per gross tablets.

PERFUMED.

3d. tablets, boxes of $\frac{1}{2}$ doz. tablets, 27/- per gross tablets.

SUPERFINE.

Delicately perfumed, box of 3 tablets, 5/- per doz. tablets.

TAR.

3d. tablets, boxes of 6 tablets ... 27/- per gross tablets.

"VASELINE" is the Registered Trade Mark of the

CHESEBROUGH MANUFACTURING CO.,
(CONSOLIDATED) NEW YORK,

42 HOLBORN VIADUCT, LONDON, E.C.

Complete Price List sent on application.

GREAT PUBLIC DEMAND FOR “ASTINE” VANISHING CREAM.

C. The results from the wide publicity that is being given to the new Beauty Specific, “Astone” Vanishing Cream, are surpassing all expectations. From all parts of the Empire there have been thousands of applications for Testing Samples, and these samples, small though they are, have been sufficient to elicit a large number of wholly unsolicited testimonials.

C. Chemists should note that their best customers are those who, having tried a thing and proved its worth, ask for it and see that they get it. Such are the users of “Astone” Vanishing Cream.

What about your Stock ?

By request we have pleasure in extending our

SPECIAL OFFER UNTIL JULY 4.

We will execute, Carriage Paid—

Orders for 1 dozen small (1-) Pots and $\frac{1}{2}$ dozen large (2 6) Pots at 11/- per dozen, and 27 3 per dozen respectively, less 20 per cent.

Terms: Cash with order, or 1 month on approved accounts.

SEND IN YOUR ORDER AT ONCE.

Our perfect Toilet Preparations are not only unequalled for purity and excellence, but are the most widely advertised.

OTHER QUICK SELLERS.

“HARLENE”
(HAIR TONIC),
11/-, 27 3 and 47/- per dozen.

“UZON”
(BRILLIANTINE),
11/- and 27 3 per dozen.

“CREMEX”
(SHAMPOO POWDER),
11/- per dozen.

“ASTOL” HAIR-COLOUR RESTORER,
33 2 and 52 6 per dozen.

Discount 20 per cent. £5 Net Carriage Paid.

Send a P.C. for Price List and full range of Showcards, Dummies, Counter Bills, &c.

EDWARDS’ “HARLENE” CO.,
20-26 LAMB’S CONDUIT STREET, LONDON, W.C.

The Holiday Season

gives a vigorous fillip to the
sales of

"Hazelinc' Snow"

(Trade Mark)

This delightful balm is first favourite everywhere for preventing and removing the disfiguring effects upon the skin, of exposure to sun, sea-air and salt-water.

Put it in the window without delay

Supplied at 11/- per dozen pots, subject.
Seasonable showcards post free on request.

and see that the ladies in your district buy their "Hazelinc' Snow" from you. Remind them that they are sure to need it.



NEW YORK

MONTRÉAL

SYDNEY

CAPE TOWN

MILAN

SHANGHAI

BUENOS AIRES

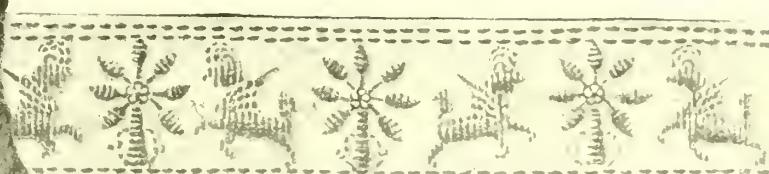
BOMBAY

London Exhibition Room: 54, WIGMORE STREET, W.

All communication intended for the Head Office should be addressed to: Snow Hill Building, London, E.C.

BURROUGHS WELLCOME & CO., LONDON

Fragment of a Babylonian Boundary Stone or Kudurru, with bust of a King of the Eighth Dynasty, sculptured in low relief. The finely-wrought embroidery of the Royal head-dress, representing mythical winged and horned animals, is here reconstructed in greater detail. Date, circa 1117-1105 B.C.





PEBECO TOOTH PASTE

Those who know PEBECO—and their number is rapidly increasing every day—will not easily be tempted to revert to any other dentifrice. They will buy their supply from those Chemists where PEBECO is in evidence. The merits of PEBECO, linked up with our distinctive advertising, sell the article, and it is a paying proposition if we appeal for your support. Give PEBECO some prominence and it will pay you.

3 doz. PEBECO sent Carriage Paid at 24/-, with a liberal supply of advertising material. Retail 1/- P.A.T.A.

P. BEIERSDORF & CO., 7 & 8 Idol Lane, LONDON, E.C.

The British Medical Journal
says :
"Benger's Food has, by its
excellence, established a
reputation of its own."

GOLD MEDAL AWARDED
Health Exhibition, London, Adelaide and Melbourne

The Lancet describes it as
"Mr. Benger's admirable
preparation."

ON THE
P.A.T.A. LIST



REG. DESIGN No. 585439

Wholesale of all Wholesale Houses and Shippers, or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

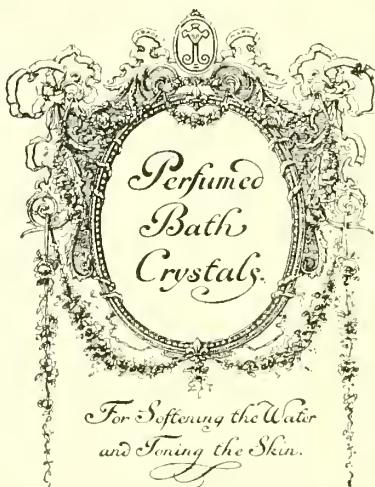
Branch Offices at: 117, Pitt Street, Sydney, Australia; 92, William Street, New York, U.S.A.
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal and Branches.

No. 36

A LINE OF DISTINCTION.

A good label certainly helps the initial sales, but, of course, it's the high qualities and pleasing effects in use which bring the 100 per cent. repeats time and again. Our non-irritant Bath Crystals are put up under the label shown here, in two qualities. (1) The best, at 12/- per dozen in Kali Bottles to sell at 2/6, and (2) slightly inferior packing, at 7/6 per dozen to retail at 1/-; larger sizes at proportionate prices.

We will send a Sample bottle with invoice, Carriage Paid, on request.



Facsimile of one of the many Art Labels.

JUST A WORD HERE ABOUT "STROBIN."

We would thank the many retailers of this line for their really excellent support. Customers, they tell us, have tried other preparations, but, after testing Strobin, say emphatically there is nothing to equal it. Then look at the profit side—and the extensive advertising campaign. You're missing a sure source of income if you are not showing the attractive showcards, etc., now.

Now is the time to put a card of Blackhead Removers in your window. This is a proved selling line at 4½d. The profit is therefore at least 125% as our price to you is 2/- per gross. May we send you a trial doz. at 2/-?

THOS. CHRISTY & CO., 4, 6, 8, 10, 12 Old Swan Lane, LONDON, E.C.

Telephone: 4278, 4279 City.

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A Weekly Journal of the Chemical and Drug Trades
and of
British Pharmacists throughout the Empire.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the Chemical, Drug and allied trades in the British Empire and other countries in the Old and New Worlds. It has a larger paid subscription circulation than any other Drug Trade Journal, and is the official organ of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Insets in the Summer Issue

of THE CHEMIST AND DRUGGIST. The publication date is July 25, and the preparation of insets is now in full swing. Has the Publisher received your instructions, and reserved room for yours? His experience will be worth something to you in the preparation of a business-puller.

THE CHEMIST AND DRUGGIST.
42 Cannon Street,
London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

An Index

to the volume of THE CHEMIST AND DRUGGIST which is completed with this issue is inscribed between p. 78 and p. 99. In a note on p. 65 we comment upon the value of this unique index to all who have any occasion for works of reference.

Articles and Communications.

"Xrayer II." believes that a State medical service is now impossible (p. 63).

The new British Pharmacopoeia is not likely to be on sale until October (p. 66).

Further interesting information regarding digitalis preparations shows how they deteriorate with age (p. 68).

In "Conference Country" we tell of previous visits of the British Pharmaceutical Conference to Chester and Eaton Hall (p. 71).

The question of getting relaxation in the conditions on which spirits are manufactured in this country is again coming forward. See the notes on p. 65 and p. 73.

The provisions of the Revenue Bill, now causing so much controversy, are the subject of an article beginning on p. 64. To traders the chief interest of the Bill is the provision for separating the valuation of the land from valuation of property upon it.

News of the Week.

More arsenical salt of tartar cases are reported on p. 58.

The proposed Poisons Ordinance for Rhodesia is not to be proceeded with this Session (p. 56).

The King's Birthday honours pertaining to pharmacy and medicine are mentioned on pp. 52-53.

The proposed changes in the Sale of Food and Drugs Acts are quoted from the Bill on p. 70.

Interesting items from the annual report of the London Chamber of Commerce are printed on p. 73.

The British Dental Association is again on the "specially qualified" warpath. See the cases reported on p. 58.

The nitrogenous constituents of hops and the wet oxidation of lead are subjects of papers read before the Chemical Society (p. 72).

The High Court of Justice has ruled that Dr. Salter's name was wrongly removed by the London Insurance Committee from the panel of doctors (p. 57).

The Corner for Students prizes are awarded this month to Mr. G. V. Tyler and Mr. R. H. Dennison. The "salt" was a mixture of three oxalates (p. 50).

The London Insurance Committee has finally declined to divide among panel doctors the money accumulated on account of insured persons not selecting a doctor (p. 100).

Sir Jesse Boot says that the present uncertainty of the full payment of Insurance dispensing accounts should disappear when variations in prices and administration are adjusted (p. 59).

The deaths reported this week include Professor Bemrose (Montreal), Mr. Blenkiron (Edinburgh), Mr. W. S. Gill, of Bush's, and Mr. Julius Prince (the Apollinaris Co.). The obituary notices are on pp. 59 and 60.

Several Pharmaceutical Committees and Chemists' Associations have considered what can be done by amendment of the Insurance Drug Tariff to prevent discounting of their bills. See the section beginning on p. 99.

At the annual meeting of the members of the Pharmaceutical Society in Scotland, Mr. J. P. Gilmour delivered an address, and a new Executive was elected, Mr. T. Guthrie being the only new member (p. 67).

Our special correspondent at The Hague continues the report of the Opium Conference held there. The most important decision so far is a resolution to hasten the enforcement of the Convention, December 1, 1914, being suggested (p. 74).

Trade and Market Matters.

Codeine, cumin-seed, and distilled lime oil are dearer. Orange-peel, lemon oil, and menthol (c.i.f.) are firmer. Pimento, Italian orris, and cassia lignea are easier. Bourbon geranium oil and coriander-seed are lower. Rather large supplies of first and second hand drugs were offered at auction (p. 75).

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus:
"Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on June Analytical Exercise.

THE powder distributed to students on May 26 contained 1 part by weight of ferrous oxalate, 1 part of cobaltous oxalate, and 3 parts of ammonium oxalate. The calculated composition of such a mixture is:

Fe	...	...	...	6.2
Co	...	...	...	6.4
NH ₄	...	...	...	15.3
C ₂ O ₄	...	...	...	56.5
H ₂ O	...	...	...	15.6
				100.0

The powder also contained, as impurities, sodium and a very slight trace of calcium.

Samples of the powder were distributed to twenty students, and thirteen reports were sent in for examination. All our correspondents detected the presence of iron, although in two cases ferric salt was reported. The failures in the detection of the other constituents of the powder were: Cobalt, 1; ammonium, 1; oxalic-acid radical, 5. Two students failed to observe the evolution of water when the powder was heated.

The analysis on this occasion was comparatively simple. When the powder was heated in a dry test-tube water-vapour and ammonia were evolved freely, and other simple preliminary tests indicated, almost with certainty, the presence of cobalt and of the oxalic-acid radical. In the systematic testing for metallic radicals the fact that the metals present in quantity fell singly into different group-precipitates rendered the subsequent examination of these precipitates quite a simple matter. It was noted, however, in the cases of a few reports that the writers did not make it clear that they had converted the iron completely into ferric salt prior to adding ammonium chloride and excess of ammonia as group reagents. Some students did not mention that they had added nitric acid at all after finding that hydrogen sulphide did not produce any sulphide precipitate in the original hydrochloric-acid solution, while others only mentioned this in some such statement as "Added nitric acid, ammonium chloride, and ammonia," but without conveying any impression that they had either, as a preliminary, boiled out the hydrogen sulphide from the solution before adding these reagents, or that they had boiled the mixture after the addition of the nitric acid and before the addition of the ammonium chloride and ammonia, to ensure the oxidation of the ferrous solution to the ferric condition. Whether the requisite oxidation was effectively attained or not, it is not possible to say, with certainty, from a study of the reports; but it may be pointed out here that the mere addition of nitric acid (and, in particular, of dilute nitric acid) does not, without boiling, ensure that the oxidation of the ferrous salt shall be rapidly completed, even although the quantity of nitric acid added has been sufficient to supply all the oxygen requisite. If the oxidation of the ferrous salt is not completed, the precipitation by means of excess of ammonia is liable to remain incomplete, and thus iron may find its way into the zinc-group precipitate, which should be iron-free.

A few complete failures to detect the oxalic-acid radical have formed a feature in connection with this exercise. Failure to observe the evolution of carbon monoxide and carbon dioxide on heating the powder with concentrated sulphuric acid is a very frequent occurrence, and is easily enough understood when only small quantities of the unknown material are, of necessity, employed; but failure to obtain any precipitate of calcium oxalate on the addition of calcium chloride to solutions (for acid radicals) which have been properly prepared and treated in every way as they should be (so far as it is possible

to judge of this from the wording of the reports) is not explicable on any probable assumption.

The very frequent error of mistaking a precipitate of silver oxalate for silver chloride was again in evidence this month. This is one of the commonest pitfalls in the testing for acid radicals, and it traps new victims with the regularity of the "confidence trick." The student of chemical analysis is well advised to be constantly on the look-out for the unlikely, and not to adopt, unconfirmed, the most likely explanation of an observed phenomenon. Silver oxalate is somewhat slowly, but eventually completely, dissolved by a sufficient quantity of concentrated nitric acid: mere acidification of the solution with dilute nitric acid does not necessarily suffice to prevent the precipitation of silver oxalate, or to dissolve it when once precipitated. A precipitate produced by silver nitrate should not be definitely pronounced insoluble in dilute nitric acid until a small quantity of it has been treated with a considerable quantity of the only moderately diluted acid and has failed to disappear on standing.

PRIZES.

The First Prize for the best analysis has been awarded to G. V. TYLER, care of E. H. Farr, The Laboratory, Uckfield.

The Second Prize has been awarded to

R. H. DENNISON, 23 Cardigan Terrace, Heaton, Newcastle-on-Tyne.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

G. V. Tyler (1st prize)	97	Kepier	...	...	74
R. H. Dennison (2nd prize)	96	Nomen	...	...	73
Student	90	Emanuel	...	...	70
Nil Sine Labore	89	Pax	...	...	61
Kappa	88	Ahem	...	...	57
Onyx	79	F. P. D.	...	...	39

2. Correspondent who is qualified:

Oxon	97
------	-----	-----	-----	----

TO CORRESPONDENTS.

R. H. DENNISON.—The slight precipitate which you supposed to consist of aluminium hydroxide was most probably silicic acid derived from the solution of potassium hydroxide which you added to the hydrochloric-acid solution of the iron-group precipitate.

STUDENT.—When you reported a carbonate as a constituent of the powder, you must surely have overlooked the fact that the solution in which you detected the carbonate had been prepared by boiling the powder with a solution of sodium carbonate.

NIL SINE LABORE.—We were not able to detect the presence of any sensible quantity of a sulphate or a chloride, and we think the reactions you observed were due to impurities in the sodium carbonate.

KAPPA.—The published composition of the powder will show you that you were quite correct regarding the presence of cobalt. We had inadvertently overlooked the fact that cobalt compounds are not mentioned, even as reagents, in the B.P. We could not obtain the manganate reaction for manganese in the bead-test.

ONYX.—The cobalt oxalate used in preparing the mixture was free from admixed nickel oxalate. Read also the reply to "Nil Sine Labore."

KEPIER.—You should not have overlooked the evolution of gas-bubbles which took place on heating the powder with concentrated sulphuric acid, as this was a very distinct feature. The supposed precipitate of silver chloride really consisted of silver oxalate.

NOMEN.—We are at a loss to understand how you failed to get any indication of the presence of the oxalic-acid radical either on heating the original powder with concentrated sulphuric acid or on adding calcium chloride in the systematic testing for acid radicals.

PAX.—Evolution of carbon dioxide on heating a substance with concentrated sulphuric acid is not necessarily due to

the decomposition of a carbonate: oxalates (as in the present instance) and various other organic salts may yield carbon dioxide mixed with carbon monoxide, or with the latter and sulphur dioxide, when so treated.

AHEM.—The green precipitate produced when the powder was boiled with solution of sodium carbonate was due to the formation of a ferrous compound. The published composition of the powder will furnish sufficient answers to the other queries in your report.

F. P. D.—You should have applied preliminary tests to small portions of the original powder, and a definite part should have been put aside from the beginning for use in testing for acid radicals. If you persevere, you need have no fear as regards improving in analytical work.

NOTE.

The next exercise in qualitative analysis will be announced in THE CHEMIST AND DRUGGIST, September 19.

Toilet Hints.

We are indebted to a pharmacist in the United States for the subjoined notes on toilet-preparations, which have been suggested by what is said on the same subjects in "Pharmaceutical Formulas."

OLD-FASHIONED BENZINE

is no longer obtainable. Most of the commercial benzine contains oily impurities, and its use for cleaning may add to rather than remove the spots. Acetone and some of the newer solvents are better than benzine for many purposes, and less dangerous.

HYPERTHYROIDISM.

The fetid odour that accompanies excessive perspiration is frequently destroyed very quickly by dusting the parts with sodium bicarbonate, which may be combined with starch or talc. It works wonders. A preparation for controlling perspiration, especially in the armpits, has recently had quite a vogue in the United States. It is applied by painting over the surface of the skin and allowing to dry, after which dress-shields such as ladies wear are not needed. The application stops perspiration, and one application is said to last for a week or two. The liquid is a 25-per-cent. watery solution of zinc chloride, and the escharotic action of that chemical is enough to warn any chemist from indulging in the "just as good."

POISONING FATALITIES.

NINE deaths due to poisons have been chronicled during the past week, three of them being suicidal cases. Concise particulars are appended.

Ammonia.—Andrew Ripley, aged twenty-two months, died in the Western Infirmary, Glasgow, as a result of drinking liquid ammonia.

Chlorodyne.—Arthur G. Walters (Belfast) died in London from an overdose of chlorodyne taken to ease pain and obtain sleep.

Cyanide of Potassium.—W. T. Hedges, St. George's Square, London, S.W., used this chemical for suicidal purposes.

Narcotic Poison.—A. F. C. Joseph died in Charing Cross Hospital, London, from the effects of an overdose of a narcotic poison.

Omni-pon.—Jenner Plomley, a Hull dentist, ended his life by hypodermic injection of this preparation.

Spirit of Salt.—Edward Walsh, Clapham, London, poisoned himself with spirit of salt while temporarily insane.

Trional.—Mary Coleman, Manchester, died through chronic alcoholism, death being accelerated by an overdose of trional. A chemist's assistant gave evidence that he had supplied the woman's husband with three 10 grains of trional, warning him that it is poison.

Veronal.—Mrs. Jessie Mackinnon, Cambridge Street, Hyde Park, London, died through taking, by misadventure, an overdose of veronal.

Vitriol.—Mr. John Taylor, Hill Farm, Luss, died through swallowing vitriol in mistake.

Chinese Wood Oil.—The quantity passed through the native Customs at Ichang during 1913 was 152,907 piculs. The amount passed through the Maritime Customs was 14,528 piculs in 1913, compared with 6,639 piculs in 1912 and 258 piculs in 1911.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

A man who drove his motor-cycle into a Derby chemist's window has been fined 10s.

The Sheffield chemists' cricket-match with the Sheffield Police had to be abandoned through the official annual inspection of police.

Mr. H. Newberry, manager to Holland & Barrett, grocers, Epsom, has applied to the Surrey County Council for an agri-horticultural poisons-licence.

The Foster-McClellan Co. have issued a warning in the West Riding respecting the sale to shopkeepers of penny packets of pills as "Doan's Backache-pills" which are not Doan's.

A correspondence has been going on in "The Times" as to the virtues of maté, the Paraguayan tea, which periodically attracts Englishmen, but has hitherto failed to catch on. Mr. Oscar Browning started the present "Times" correspondence.

The donor of the new R.N.L.I. lifeboat for Hayling, Hampshire, which has recently been launched, was the late Mr. John Proctor, chemist and druggist, Newcastle-on-Tyne, who died on January 30, 1913. The lifeboat has been named the *Proctor*.

The Lighting Committee of the Brighton Town Council have refused to accede to a proposal by the Brighton and Hove Pharmaceutical Association that in view of the long hours of business chemists should be charged at the flat rate of 5d. per unit for electricity.

"The Times" reports that in the financial year which ended on March 31 the revenue receipts from the sale of medicine duty-stamps were 360,376*l.*, or 32,058*l.* more than in the previous year. The number of licences issued was 43,156, compared with 43,118 in 1912-13.

The Drapers' Company has undertaken to defray the cost of the erection and equipment of new chemical laboratories at the East London College. The expenditure involved is about 15,000*l.*, and the new building is expected to be ready for the use of students at the commencement of the new session in October.

The issue of the "British Journal of Photography" for June 19 marked the completion of sixty years of continuous publication of that journal. A very interesting supplement, entitled "Photography, Past and Present," was included with the issue. In this supplement the various phases of photography are traced from the commencement, and many illustrations of early workers are given.

Constitution of Atoms.

Professor Sir J. J. Thomson, O.M., F.R.S., lecturing before the Physical Society of London on the occasion of their visit to Cambridge on June 20, gave the results of some important experiments he has been making with regard to the production of very soft Röntgen radiation by the impact of positive and slow cathode rays. Professor Thomson said the object of the experiments was to fill up a gap in the kind of radiation that they had at their disposal upon investigating the properties of the atom. In the experiments two methods were employed, the first being the production of Röntgen radiation by the impact of positively charged atoms, and the second was a photographic method, which, the Professor said, is rather time-wasting. It is hoped to find how many rings of electrons there are in an atom.

International Congress of Tropical Agriculture.

Between three and four hundred delegates from all parts of the world attended the opening meeting of this Congress at the Imperial Institute, London, on Tuesday, June 23. Professor Wyndham R. Dunstan, F.R.S., the President, was in the chair, and he was supported by Lord Emmott, Parliamentary Under-Secretary for the Colonies, and other men of distinction. Lord Emmott conveyed a message from the King stating that the importance of the delibera-

tions of the Congress and the number and variety of subjects to be discussed are of special interest to him. The President delivered an excellent address, which was well received by his audience. One of the most important statements that he made was in regard to the production of cocoa in the Gold Coast. He said that an output of 11,407,608 lb. in 1905 rose to 45,277,606 lb. in 1910, and last year it was 113,239,980 lb., the Gold Coast now standing first on the list of producers. The cocoa-industry of the Gold Coast is a notable example of an enterprise which has been brought to success as a native industry aided, and to some extent supervised, by Government, but without pressure or coercion in any form. These remarks were endorsed by Sir Hugh Clifford in seconding the vote of thanks to Professor Dunstan, proposed by Sir George Reid. The Congress is meeting day by day in the Imperial Institute, and the meetings will be continued until Tuesday, June 30. Little of the business has direct relation to the drug-trade, but on Friday afternoon, June 26, at half-past two, papers on "Oils and Oil-seeds" will be taken, and these include a communication on the cultivation of chaulmugra in Assam as well as the oils of Ceylon.

The British Association.

The annual meeting of the British Association will this year be held in Australia. The main party will leave England in the first week of July, and all are due at Adelaide on August 8, when the meeting will commence. The principal meetings will be held, however, in Melbourne and Sydney, and the address of the President, Professor William Bateson, F.R.S., director of the John Innes Horticultural Institution, Merton Park, will be divided into two parts, to be delivered in the two capital cities. Professor Bateson is one of the foremost living authorities on Mendel's principles of heredity, a subject which will afford him effective material for a fascinating discourse. Professor Pope's address, as President of the Chemical Section, is to be on the arrangement of atoms within the molecule, and will step over the imperceptible boundary which divides chemistry from mathematical physics. It will show where chemistry awaits the mathematician's laws of the behaviour of atoms in their relations with one another, which are expressed in the terms of affinity and valency. Six public lectures will be given during the meeting, the lecturers including Sir H. H. Cunningham, Professor E. P. K. Gonner (who will preside over the Economic Science Section), Dr. A. C. Haddon, and Dr. W. Rosenheim. Sir Oliver Lodge and Sir E. Schaefer will give evening discourses at Adelaide and Brisbane.

Contracts.

Settlement has been notified of the following contracts : Whitby Education Committee.—Mr. C. Tindale, appointed chemist.

Eastry (Kent) Guardians.—Mr. A. E. Woodruff, for chemists' sundries.

Kidderminster Guardians.—Ferris & Co., Bristol, for drugs for one year at 68*l.* 2*s.* 2*d.*

Bradford Guardians.—Stephenson Bros., Ltd., for dry-saltery; J. Swaine & Son, for soft soap; the Bradford Blind Institute for brushes and combs.

London County Council.—British Oxygen Co., Ltd., and Barrett & Elers, Ltd., for compressed gases; John Bevan & Co., Ltd., Llanelli, and D. Matthews, Morriston, Glam., for protosulphate of iron.

Bolton Guardians.—Waller & Riley, Ltd., for Bovril, Oxo, dressings, drugs, druggists' sundries, spectacles, and un-medicated tow; Thos. Moscrop & Co., Ltd., for acids, disinfecting-fluids, and toilet-soap; Sanitas Co., for soap.

Hull Guardians.—Mr. B. M. Stoakes, for aërated waters for six months. The Guardians have received a letter from the Hull Pharmacists' Association protesting against the Board's present method of purchasing drugs. The Clerk was instructed to reply that the matter had previously been considered by the Guardians.

Manchester.

Business in Manchester has been rather quiet of late, the sale of summer requisites and salines, etc., not being up to the usual owing to the variable and inclement weather experienced.

Mr. Marcus Fedderman, chemist and druggist, C.P.A. Buildings, Oxford Street, Manchester, has bought back

the business from the Official Receiver, his being the only bid.

Messrs. Thompson & Capper, Ltd., Deansgate, have a special display of "Amami" preparations, and a notice in the window to the effect that they have 2,000 free jars of Amami to give away to customers for a limited period.

Messrs. C. Midgley & Co., chemists, Exchange Street, City, have a unique showcase, of the island pattern, in the centre of the spacious new shop-front in their new premises, which shows off the goods to great advantage. It is the only one of its kind in Manchester (in the chemists' line). They are making a big display of a special cheap line in vacuum-flasks and the 1*s.* Brown-low disinfecting-bulbs at present.

There is a rumour that a number of Manchester chemists who are ardent golfers are desirous of arranging an afternoon's sport, either among Manchester and Salford golfing pharmacists or with some of their brother pills from other towns. "Why not issue a challenge to the Liverpool enthusiasts, and then a return match could most probably be got in before the close of the summer?" said a well-known Manchester pharmacist to our correspondent.

Part of the daily Press made plenty of "copy" out of the isolated case of the Manchester chemist who refused to make up an Insurance prescription on a Sunday, and stated to the patient he was not going to make any more up, as they (the Insurance Committee) owed him quite enough already. Eventually the doctor who wrote the prescription had to make it up for the patient, and he grumbled, saying he did not think he would be paid for it, as recently a doctor had been prosecuted for charging a patient for medicine supplied in connection with the Insurance Act.

The King Visits Nottingham.

Nottingham's great day, June 24, when King George V. paid his first visit, was favoured by brilliant sunshine, tempered by fleecy summer clouds and light breezes. A few minutes after the guns at the Castle had given a salute the King and Queen arrived at the great Market Place and took up their position on the chairs of State on a dais arranged in front of the Exchange. Among those presented to their Majesties by the Mayor were Alderman Richard FitzHugh, J.P., President of the Nottingham Pharmaceutical Association, and Alderman Sambourne Cook, chemist and druggist. On the line of route decorations worthy of note were to be seen at the establishments of FitzHugh & Carr, F. Ross Sergeant, and the branches of Boots, Ltd.

King's Birthday Honours.

On the occasion of the official celebration of King George V.'s birthday on Monday, June 22, many honours were conferred by his Majesty, and among them the following : A baronetcy has been granted to Sir Joseph Beecham, the proprietor of Beecham's pills, whose services to music by the production, *inter alia*, of grand opera, particularly the Russian opera and ballet now being given at Drury Lane Theatre, have brought him under the public eye. Sir Joseph received a knighthood in 1912. He is a director of A. & F. Pears, Ltd., is the owner of two theatres, and has been three times Mayor of St. Helens. In his residences, Ewanville, Huyton, Liverpool, and 9 Arkwright Road, Hampstead, N.W., are exceptionally fine collections of English paintings and other works of art. Sir Joseph is at present negotiating for the purchase of the Covent Garden estate. A baronetcy has also been granted to Mr. James Horlick, of Cowley Manor, Cheltenham, who is High Sheriff of Gloucestershire and a Deputy Lieutenant for the county. Mr. Horlick is the founder, along with his brother, of the malted-milk business with which his name is associated, but for some years his interest in connection with the direction of it has been confined to occasional meetings of the board. A knighthood has been conferred upon Mr. James George Frazer, LL.D., author of "The Golden Bough," and son of the late Mr. Daniel Frazer, of Frazer & Green, chemists, Glasgow. Mr. James Leishman, Chairman of the National Health Insurance Commission in Scotland, is

also to be knighted, and in the same list are Dr. William Milligan, aurist and laryngologist to the Royal Infirmary, Manchester; Dr. T. K. Rose, F.I.C., F.C.S., chemist and assayer to the Mint; and Dr. Seymour J. Sharkey, F.R.C.P., of St. Thomas's Hospital and 22 Harley Street. Among the knights bachelor is the name of an erstwhile Minor man—Dr. T. P. Anderson Stuart, Dean of the Faculty of Medicine at Sydney University, who served his apprenticeship to the drug-trade with Messrs. Carruthers & Allen, Dumfries. He passed the Minor examination in 1873, when he was seventeen, after which he studied medicine at Edinburgh University, graduated as M.B., C.M. in 1880, and took his M.D. two years later. In 1883 he was appointed Professor of Physiology in Sydney University, and has done much work for education in Australia. Dr. Alfred E. Thomson, of Cape Town, who is also made a knight bachelor, is a graduate of the Royal University of Ireland and formerly held posts in Belfast and Margate hospitals. In the Indian list occurs the name of Lieutenant-Colonel Leonard Rogers, C.I.E., M.D., etc., Professor of Pathology in the Medical College, Calcutta, and Bacteriologist to the Government, who is receiving the honour of knighthood. It is to the Lieutenant-Colonel that medicine owes the successful use of emetine in the treatment of amoebic dysentery. Dr. Harold R. D. Spitta, Bacteriologist to his Majesty's Household, and of the Bacteriological Department of St. George's Hospital, is receiving the M.V.O.

British Medical Association.

Arrangements are well in hand for the eighty-third annual meeting of the British Medical Association, which will be held in Cambridge next year from July 2 to July 10, under the presidency of Professor Sir Thomas Clifford Allbutt, K.C.B. A General Committee meeting was held on Thursday, June 18, at the new Medical Schools, Downing Street, Cambridge. Invitations had been sent to representatives of the leading county families, members of the University, local medical men, members of County and Borough Councils, and other bodies. Cambridge pharmacists were included in the invitation, and were represented by Alderman A. S. Campkin, J.P., Mr. E. S. Peck, M.A., Mr. J. Evans (President local Association), Mr. C. F. Barker (Secretary local Association), and Messrs. E. H. Church, T. J. Mallett, and Turner. The Chairman (Dr. Griffiths) outlined the programme, and said that an unusually large number of visitors was expected, and invited the help and co-operation of all present in assisting with the social side of the conference.

The Midlands

It is rumoured that a well-known local firm of chemists has acquired a glass-bottle factory at Brierley Hill.

Sir George Kendrick has given 18,000/- to found a Chair in Physics at the Birmingham University, to be called the Poynting Chair. He is Chairman of the City Education Committee.

Alderman Clayton, Ph.C., entertained the children of the Bluecoat School to the Prince of Wales's Theatre last week, when pictures illustrative of Captain Scott's Antarctic Expedition were exhibited.

A movement among manufacturers of Birmingham, having for its object the abolition of the Whitsun Holiday, met with much favour among employés. Its place is to be taken by a full week's holiday in August.

A largely attended Council-meeting of the Midland Pharmaceutical Association was held at the Birmingham University on June 22, when among the items on the agenda which were discussed were several phases of the Insurance Act.

The Secretary of the Midland Section of the Society of Chemical Industry organised a visit to Messrs. Cadbury's cocoa-works at Bournville on June 23, when a large party was conducted over the works by lady guides. The party was subsequently entertained to tea and presented with souvenir pamphlets and specimens of the products.

The United Kingdom Commercial Travellers' Association has been holding a conference in Birmingham this week. At a dinner, at which Sir Richard Cooper, Bart., M.P., presided, 437 members were present. Among the

company were the Lord Mayor, Sir Alfred Bird, M.P., and many well-known public men. Mr. Thomas, the pharmaceutico-tenor, supplied the musical programme.

Pharmacists may expect to have the following "good liniment," culled from the "Birmingham News," to dispense, but perhaps in more moderate quantities: "One quart of turpentine and one quart of coal oil, $\frac{1}{2}$ oz. alkanet-root, 2 oz. capsicums, 1 oz. of oil of peppermint, 4 oz. of camphor, and a little oil of peppergrass." The last three are stated to be optional. "Cheap and stimulating," "Clean and fragrant," are some of the recommendations attached to the liniment.

Liverpool.

The students of the Liverpool School of Pharmacy are to make a presentation to the Principal, Mr. H. Humphreys Jones, F.C.S., at the Royal Institution, Colquitt Street, on Wednesday, July 1, at 9 p.m. Mr. Harold Wyatt will preside, and he will be supported by the Council and Education Committee of the Liverpool Chemists' Association. All old students are cordially invited to attend. Particulars may be obtained from Mr. Williams, 102 Carisbrook Road, Walton, Liverpool. When Mr. Humphreys Jones was at the Association's picnic last week Mr. Cleworth, of Manchester, took a snap of him and Mr. J. H. Robinson, the energetic and ever-genial Secretary of the Association. We reproduce it, Mr. Humphreys Jones being on the left of the picture and Mr. Robinson on the right.



MR. JONES AND MR. ROBINSON.

From Various Courts.

At Guildhall Police Court on June 24, Thomas Williams, a camera fitter, in the employ of Messrs. Butcher & Sons, Ltd., London, was brought up on a charge of stealing a camera. He pleaded guilty and was remanded.

At Westminster Police Court on May 24, John Edward Sutton, of Knightsbridge, was remanded on a charge of knowingly making a false declaration in the name of Cartwright Davis, deceased, for the purposes of registration as a dentist. Mr. Turner, for the prosecution, stated that defendant had signed a false return and declaration time after time to deceive the General Medical Council. The proceedings were taken under the Perjury Act, Section 6.

At the Mansion House on June 24, Arthur Nixon (17), warehouseman in the employ of Messrs. Langton, Fort & Co., wholesale druggists, 10 Beer Lane, E.C., was brought up on remand charged with drinking a quantity of liquid ergot with intent to commit suicide. On the morning of June 17 he was found unconscious on his employers' premises and removed to the London Hospital. His father said he was a steady young man, and bore a good character. Sir John Baddeley pointed out how foolish he had been, and hoped this would be a lesson to him. He was discharged.

A propos of the George Crabbe centennial commemoration of June 17, it is recorded in his biography how in 1777 he purchased "on credit" the shattered furniture of an apothecary's shop at Aldeburgh, together with the drugs that stocked it. His knowledge of *materia medica* and keen botanical proclivities rather militated against his success there than otherwise, because the ignorant and illiterate country-folk argued that if he made medicines out of weeds picked up in the ditches, he only deserved to be paid cheaply for them.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Messrs. Hayes, Conyngham & Robinson, Ltd., Main Street, Blackrock, are moving to other premises in the same township.

The analyst has reported that the samples of drugs submitted to him by the Edenderry Guardians were up to the standard and in every way correct.

At the closing meeting of the Session of the Dawn of Freedom Branch of the United Irish League, Belfast, on June 18, Mr. M. McDonald, Ph.C., Donegall Street, was presented with a fitted dressing-case, a gold-mounted amber cigarette-holder, and an illuminated address, in recognition of his services as President for the past two years. Mrs. McDonald was presented with a case of carvers and a cruet-stand.

At Monaghan County Court last week, Deans, Logan & Co., Ltd., cordial-manufacturers, Belfast, recovered 4*l.* 11*s.* 6*d.* from Mr. Thomas Toal, J.P., Smithboro', Chairman of Monaghan County Council, for wine. Judge Johnston gave a decree for the amount, with regret, because the defendant had paid the amount to a traveller, named Reid, employed by the plaintiffs, and Mr. Toal produced a cheque, dated March 31, which had been endorsed by Reid.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Edinburgh.

Edinburgh chemists received, on June 23, the usual 90 per cent. of the account for the month ending June 15, together with the balance due from the preceding month.

Employees and friends of Messrs. Raimes, Clark & Co., Ltd., numbering about a hundred, spent an enjoyable afternoon and evening at Roslin on Saturday, June 20.

A local pharmacist reports that his Insurance scripts for the month ended June 15 average 7*d.* and a fraction, a drop of nearly 2*d.* per form compared with the corresponding period last year.

A successful botanical excursion of the Edinburgh Chemists', Assistants', and Apprentices' Association took place on June 19, under the leadership of Mr. Henry Stout, Ph.C. The party travelled by train from the Caledonian Station to Colinton, and field work was done in Colinton Dell, along the banks of the Water of Leith, a large number of plants being collected.

Fife.

Councillor Smart, chemist and druggist, Buckhaven, has left for a tour in Canada.

A movement is on foot for the Leven chemists to secure a closing order for the burgh. This could be accomplished with very little trouble.

There is a serious shortage in the Fife County Drug Fund, and at present there is prospect of only 30 per cent. of the last two months' accounts being paid. (See later.)

Fife Coast chemists are now getting the benefit of the summer visitors. Bathing-caps and photo-goods are the chief demands, but skin-creams and toilet-soaps run them hard.

Glasgow and the West.

In the June monthly medal golf competition, Mr. Swedily (16) qualified with a net score of 82.

Mr. A. Ewing, chemist and druggist, Stobcross Street, Glasgow, has opened a branch in Crookston Street.

The exceptionally bad weather has had a depressing effect on business, chemists generally complaining of dull trade.

Mr. L. McNab, chemist and druggist, has taken over the business in Sinclair Drive, Glasgow, which he has managed for a number of years for Mr. G. Shiach Kitchin.

Messrs. Grierson & Murchie, chemists and druggists, 12 Bridgeton Cross, Glasgow, have asked the local Insurance Committee to remove their name from the chemists' panel, owing to Insurance work interfering with the general business.

Surgeon-General William Babtie, V.C., C.M.G., M.B., Deputy-Director-General of the Army Medical Service, who has been made an Honorary Surgeon to the King, is the son of the veteran Scottish pharmacist Mr. John Babtie, J.P., Ph.C., Dumbarton, who this year enters on his sixty-first year as a pharmaceutical chemist, and attends daily in the shop, where he was apprenticed about seventy years ago. As a Major man he is junior by a year to Mr. Thomas Cochrane, Falkirk, who is the oldest of his class in Scotland.

An unfortunate motor accident occurred in Paisley Road on June 19, involving the death of Mr. A. McIntosh, cashier to Messrs. Jas. Taylor & Sons, Trongate, Glasgow. Mr. McIntosh had stopped to speak to a friend opposite the road which leads to his home, in Corkerhill, and, on leaving, failed to notice the approach of the car. In crossing the road he was knocked down and injured so seriously that he died about an hour after his removal to the Western Infirmary. Mr. McIntosh leaves a widow and one daughter.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

MR. JAMES WELCH, of Messrs. Thomson & Taylor, Bombay, left on June 1 for London per s.s. *Habsburg*.

MR. CLAUDE S. WATSON WILL, son of the late Mr. W. Watson Will, Metropolitan College of Pharmacy, London, has been appointed manager of the business of Maynard & Co., Ltd., Singapore.

INDIAN TURPENTINE.—At a recent Conference held at Dehra Dun, which was attended by, among others, Mr. Kershaw, Revenue Secretary to the Government of India, the Indian turpentine industry was discussed at length. Improved French machinery has been installed at Bhawali, in the United Provinces, and it has also been decided to improve the machinery at Lahore. Steps have been taken to standardise the production, and it is hoped (says the "Indian Agriculturist") that within the next few years Indian demands will be fully met by local production.

INDIAN PHARMACY ACT WANTED.—The Bombay Presidency Trades Association, Ltd., having received a communication from Mr. J. D. Jenkins, general manager of Messrs. Phillips & Co., Ltd., with reference to the introduction of a Pharmacy Act into British India, decided, at a meeting of the committee, to appoint a sub-committee of the following leading chemists of the city to consider and report on the matter: Messrs. C. B. Robinson (proprietor Thomson & Taylor), J. Fraser (general manager, Kemp & Co., Ltd.), A. Pinckney (manager, Army and Navy Co-operative Stores), and J. D. Jenkins (general manager, Phillips & Co., Ltd.). It is proposed that the Government should be approached with a view to legislation regulating the sale, dispensing, and compounding of poisons in British India.

MR. JAMES DORMAN, chemist and druggist, manager of the drug and dispensing department of the Colombo Apothecaries' Co., Ltd., Colombo, Ceylon, has retired after twenty-five years' service. At the annual meeting of the company, held on May 26, the Chairman paid a fitting tribute to Mr. Dorman, bidding him a hearty farewell and tendering him the most cordial good wishes on his retirement to the Old Country. Mr. Dorman is succeeded by Mr. J. B. Morris, previously with Messrs. Duncan, Flockhart & Co., Edinburgh, who has also been a lengthy number of years in the service of the company. Mr. Dorman's colleagues presented both Mrs. Dorman and him with handsomely fitted dressing-cases. The Cingalese assistants in the company also presented Mr. Dorman with a gold medallion and an illuminated address, and the directors gave a handsome silver tea-service.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

WHOLESALE DRUGGISTS' BANQUET.—The annual banquet of the Paris Wholesale Druggists' Association was held on June 24 at the Palais d'Orsay Hotel, Paris. There was a large attendance of the leading and most influential members of the French wholesale drug-trade.

OBITUARY.—M. Louis Teilliet, whose death in the South of France is reported, was long established at Bastia, and was the organiser of the Association of Pharmacists of Corsica. The union brought about by him did not, unfortunately, last longer than his stay in the island. He removed to Moustiers-Sainte-Marie and took an active part in pharmaceutical affairs there, publishing some articles on the Italian Pharmacy Law.

DEPILATORY SERVICES.—A Mme. Salamonowitch, being about to be married, applied to Dr. Laurent de Belloc for the removal of superfluous hair. The medical man treated his patient by x rays. He was successful in removing the superfluous hair, but radiodermatitis resulted, for which the patient sued the doctor for 4,000 francs. The Seine Police Court assessed the damages at 720 francs, holding that the doctor had not taken all the necessary precautions.

PHARMACY IN MOROCCO.—The General Association of French Pharmacists having been requested by one of its members to study the organisation of pharmacy in Morocco, M. Vigneron reported that the profession, hitherto and at present open to all comers in that country, had recently been subject to regulations issued by the Grand Vizier. According to the decree no unqualified man will be allowed to keep open shop after 1919. The Committee of the Association regretted to learn that the matter had already been dealt with, as it is thus unable to press for special privileges or a preference in favour of French pharmacists.

PARIS SOCIETY OF PHARMACY.—At the June meeting the President announced the death of M. Nordagne, of Castelnau-d'Arcais, a corresponding member. A committee of three was nominated to examine the respective merits of the candidates for the vacancy thus created. M. Mouren presented a study of the rarer gases in firedamp. In collaboration with M. Lepape, the professor has identified argon, krypton, and xenon in firedamp, and in the same proportions as they are found in mineral springs. This fact supports the hypothesis already broached by M. Mouren as to the relative proportion in which certain elements are found in nature. Professor Bourquelot presented some large and very pure samples of methylgalactoside β and ethylgalactoside β prepared by biochemical synthesis. He had thus been enabled to ascertain physical characteristics, such as melting-point, and determine rotatory power. He also showed anisyl glucoside prepared by him in collaboration with M. Ludwig, and gave some information on the various glucosides upon which he is working at present. The election of a resident member was the last item on the notice-paper. M. Javillier was the successful candidate.

RICE-POWDER BOXES.—At the Civil Court at Grasse, M. Caremil, proprietor of the perfumery firm of Honoré Payan, was charged with having sold since March 1910 boxes of rice powder imitating those of Jean Giraud fils, the present proprietors of which are Joseph and Ernest Sozio, and also with having used a label since 1899 on his products in imitation of the one used by plaintiffs. Besides the resemblance in shape and colour, the box used by defendant Caremil bears additional points of resemblance in the matter of the label which are likely to mislead the purchaser. The Court found that the difference in the names does not do away with the fraudulent imitation, especially as the competition mostly takes place abroad, notably in England, where the difference in the names is not so evident to the purchasers, the majority of whom do not know French. The fact that plaintiffs did not take immediate action against Caremil at the time when the latter first used his boxes and labels

does not imply renunciation of their rights in the trademark, nor debar them from bringing the illegal imitation before the Court at a later date. Caremil was found guilty of illegal competition, and was restrained from imitating the goods in future, the stock which he holds being confiscated. He was also fined 500 francs, and ordered to pay the costs of the prosecution.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Cape Province.

BUSINESS CHANGES.—Mr. Gerard Heald, who has for some years been employed by a leading Transvaal chemist, has purchased the business of Mr. A. Elliott, Maitland, Cape Town.—Mr. James Moore, Adderly Street, Cape Town, has opened a branch at Three Anchor Bay.

P.A.T.A.—At a recent meeting of the South African Proprietary Articles Trade Association, it was decided to hold the second annual meeting at Cape Town on August 6. It is expected that delegates will be present from all the provinces and local centres. Among the protected lines added recently are Odol and Kephaldol.

PHARMACEUTICAL SOCIETY.—A meeting of the Council was held on May 28, at 65 Hout Street, Cape Town. The President (Mr. G. R. Cleghorn) was in the chair, and there were also present Mr. J. Dell (Vice-President), Mr. Sloan (Hon. Secretary), and Messrs. Copeland, Fick, Edmeades, Hopkins, and Patterson. Seven new members and one associate member were elected. The President brought forward the subject of early closing, and it was decided to call a general meeting of chemists to discuss the matter.

PERSONAL.—Mr. J. R. Barnsley, of Beaconsfield, passed through Cape Town on June 5, on his way to Europe for four months' holiday. He sailed by the P. & O. liner *Benalla*.—Mr. Collis, chemist, Claremont, is proceeding on a holiday to England by the *Edinburgh Castle*. His business will be managed during his absence by Mr. Hamilton, lately with Goodenough & Walker, of Muizenberg.—Mr. Gregory, of Maw's, was in town before sailing for England by the *Galway Castle* on June 15.—Dr. Froemling, who has been in the Woodstock Hospital for some time, is progressing favourably. He is now much brighter, and able to get up a little.

AMATEUR MEDICAL PRACTITIONER.—The Rev. David Johannes De Villiers, Piquetberg, was committed for trial for contravening the Medical and Pharmacy Act. The case was remitted by the Attorney-General for trial by the Magistrate. Defendant was found guilty on eight counts of contravening the Act, and was sentenced to pay a fine of 20s. for each count, or go to prison for three days. The fines were paid.

Orange Free State.

PHARMACEUTICAL SOCIETY.—The usual monthly meeting was held on May 12. The Secretary reported on what had been done to bring about some change in the present Customs regulations. At the last meeting it had been decided to send a letter to the member for Bloemfontein in the Union Assembly, pointing out the various disadvantages under which manufacturers of ordinary spirituous preparations work in the Orange Free State. The chief grievance is that all matters, even those of trifling detail, have to be referred to Pretoria. Several specific cases of delay were mentioned, showing that eighteen days is required before permits are granted to import the spirit from Natal. One of the conditions under which this manufacturing spirit is obtained is that it be used up in a month. One chemist had to apply for an extension of another month, as his spirit had not arrived when this time allowance had expired. One of the wholesale firms which have been manufacturing largely here is closing down, and

in a circular to its customers pointed out that it is at a disadvantage working in Bloemfontein owing to these restrictions. The meeting decided that nothing more could be done at present. At this stage the President made reference to the late Mr. A. Fowlie, of Brandfort, who had been a member of the Society for many years. The Secretary was instructed to send a letter of sympathy to Mr. Fowlie's relatives. The subject of pharmacy classes was then discussed, but very little progress was made. It was suggested that something might be done to get these classes included in the work of the new Polytechnic, which is under construction. After the meeting, the P.A.T.A. committee meeting was held. A few days previously the committee had met and drawn up a price-list for the Orange Free State, but it was decided not to enforce this list for the present.

Rhodesia.

POISONS ORDINANCE.—A discussion on the Poisons Ordinance which was printed in the *C. & D.*, May 2, p. 38, took place on the second reading in the Legislative Council on May 18. Colonel Heyman said that since the adjournment he had looked into the Ordinance and had studied the recommendations which had reached him from different bodies in the country. There is not the slightest doubt, he said, that in its present form the Ordinance would cause in many cases very great inconvenience to various industries in the country, notably the mining industry and the farming industry. It appeared that the Ordinance had been taken over practically *verbatim* from an almost obsolete Act of the Cape of 1891, with the exception of two clauses, 14 and 15, which the Society of Chemists in Rhodesia maintained ought to be the subject of a Pharmacy Bill, and not a Poisons Ordinance. The Attorney-General, in the course of the debate, had said that there would be no restrictions placed upon the purchaser, but only on the seller. Immediately they referred to Division 1 of the Schedule they would find that a great restriction is placed upon the purchaser, especially in regard to sheep and cattle dips and disinfectants. These difficulties are really so great that the Ordinance would be unworkable in the present conditions of the country. There seemed very little doubt that the schedule was taken over in considerable haste and without realising what the effect might be on the two industries he had specified. He maintained that sufficient time had not been given for consideration in framing the Ordinance, and if it is to go through during this Session, it would necessitate a great deal of amending in many ways. He therefore suggested to the Government if they could see their way to withdraw the Ordinance from the present Session and bring up a new Ordinance at the next ordinary Session, it would give the various parties interested ample time to compare the Ordinance with others in existence in other Colonies, and they could probably make suggestions which would be acceptable to the Government, and so make the Ordinance a workable one throughout the Territory. Mr. Cripps seconded the suggestion made by the last speaker. He said that the chemists in the Colony seemed to be of the opinion to-day that a Poisons Ordinance is very necessary, but they desired that the Ordinance should be brought up to date, and the chemists said that the conditions are so constantly changing in regard to the making-up of medicines that they would like to be consulted with a view to bringing the Ordinance up to date. In conversations he had had with the learned gentlemen of that particular profession, he had been informed that a great deal of amending is necessary in the schedule both in Divisions 1 and 2, and they would be able to offer useful suggestions when the new Ordinance is framed. The Attorney-General said that perhaps he might avoid the need for further debate by saying that he had found that by some unfortunate misunderstanding the schedule to the Ordinance was not up to date. He also found that there is a feeling that further consideration should be given to the matter. He pointed out, however, that sheep-dips and industrial poisons are specially exempted. He accepted the suggestion that the Ordinance should not be proceeded with this Session.

British East Africa News.

(By the "C. & D." Correspondent.)

EARLY CLOSING.—The chemists of Nairobi have now arranged to close their pharmacies at 6 p.m. on week-days and 2 p.m. on Saturdays, and to open on Sundays for an hour in the morning and an hour in the afternoon.

DRUG REGULATIONS.—All chemists were required to send in lists of all stocks of opium, morphine, cocaine, heroin, and cannabis indica by June 1 to the office of the P.M.O., and in future a permit will be required before any of these articles can be imported.

OPIUM CASE.—Messrs. White and McGeorge figured in the Magistrates' Court as witnesses in an opium case recently, when an Indian sued Mr. de Mello, manager of Messrs. Ed. St. Rose & Co., for a breach of contract with respect to the purchase of a quantity of opium, for which the Indian wanted Rs. 80 (5*l.* 6*s.* 8*d.*) per lb., and which Mr. de Mello denied having engaged to buy at such a price. Messrs. White and McGeorge were called to state what they considered a fair price for opium. Mr. de Mello won his case, with costs.

PHARMACEUTICAL SOCIETY.—At a recent meeting of the Pharmaceutical Society of British East Africa and Uganda, Mr. A. A. White, of Messrs. Wardle & Co., Ltd., was elected (subject to the approval of the Governor, Sir Henry Conway Belfield, K.C.M.G.) to sit on the Pharmacy Board, to fill the vacancy caused by the resignation of Mr. B. A. Bull. This is probably the first occasion that any public body in British East Africa has been invited to elect a member to sit on a Government Board, as at the present time the Legislative Assembly and all administrative or advisory Boards are formed of nominated members. Mr. Melville has been elected to the committee of the Society, *vice* Mr. Bull, resigned.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

New South Wales.

ADMINISTRATIVE CONTROL.—The Governor-in-Council has approved of the transfer to the Minister of Public Health from the Chief Secretary of the ministerial control and direction of a large number of Acts, including the Dentists Act, 1912; Medical Practitioners Act, 1912; Public Health Act, 1902; Pure Food Act, 1908; various Acts relating to hospitals; the Director-General of Public Health; the Dental Board; and the Medical Board for the registration of medical practitioners. But the Pharmacy Board and the Pharmacy Act are not included in the list.

Queensland.

LIQUID PARAFFIN.—On April 28 five Queen Street pharmacists and one other were prosecuted in the Brisbane City Summons Court, before Colonel Moore, police magistrate, for selling liquid paraffin which did not comply with the standard laid down in the British Pharmacopoeia. For the prosecution it was stated that the oil sold was nothing more or less than ordinary white oil which is used as a lubricating machine-oil, No. 1—machine-oil which, the Magistrate said, he happened to know was sold by the Vacuum Oil Co. at 5*s.* 6*d.* a gallon, and later in the case Mr. T. McColl, assistant Government analyst, said that the value coming through the Customs was 1*s.* 9*d.* per gallon, and the wholesale houses sold it for 4*s.* 6*d.* a gallon. The solicitor for the prosecution said that the public had been buying it as liquid paraffin at 32*s.* per gallon. For the defence it was admitted that a technical breach of the Act had been made, but it was claimed that the chemists in court were innocent. They had purchased the article as liquid paraffin and sold it in exactly the same state as they had bought it, save for a little flavouring. But they had quite inadvertently overlooked the standard laid down in the British Pharmacopoeia. Liquid paraffin of B.P. standard was not obtainable in Australia at the time. The Magistrate said he was not disposed to inflict a heavy penalty, and imposed a fine of 4*l.* in each case, to include all costs.

LEGAL REPORTS.

TRADE LAW.

Inspection of Weights and Measures.—At Stratford Police Court on June 20, a shopkeeper was fined 10s., and 4s. costs, for refusing to permit an inspector of weights and measures to examine her scales and weights.

Pharmacy Act (Isle of Man).—At the High Bailiff's Court, Douglas, I.M., on June 12, Frederick James Costigan, Victoria Street, Douglas, was summoned for keeping open shop for the purpose of dispensing medical prescriptions, he not being a qualified chemist or registered under the Act. Mr. R. B. Moore appeared for the police, who prosecuted, and Mr. Farrant was for the defendant. Evidence was given by a police-sergeant to the effect that on May 26 a medical prescription written by Dr. Mackenzie was taken to defendant's shop, and an hour later it was dispensed, with the name of Ivinston Wilson on the label, Mr. Wilson having been the previous owner of the business. This evidence was corroborated. Mr. Farrant, for the defence, admitted that defendant was not registered, and called Mr. Henry Kerruish, a registered chemist, in business in Prospect Terrace, who deposed that on May 26 he dispensed the medicine for the defendant and labelled it with his own label. He had dispensed prescriptions before for the defendant, and pointed out that the label on the bottle was originally his, but his name had been taken off and Mr. Wilson's name put at the bottom. The number on the label differed from that on the prescription. The defendant himself stated that he had carried on the business for three years with a qualified man, but did not keep the shop open for dispensing medical prescriptions, simply for dealing in photographic and proprietary articles. Since January he had received only eight prescriptions, of which four were dispensed by Mr. Kerruish and four by Mr. Lewin, a qualified chemist, on the premises. Owing to the demand for qualified men in Great Britain consequent on the Insurance Act, it was impossible to get one for his shop. The High Bailiff found that defendant had been keeping the premises open for dispensing medical prescriptions, and imposed a fine of 40s.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

"VERONAL" TRADE-MARK.

In the Chancery Division on June 19, counsel mentioned to Mr. Justice Eve a motion in the matter of the "Veronal" trade-mark registered by E. Merck, which was for rectification of the register.

Mr. Maughan, K.C., for the applicants, said the matter had been before his Lordship before, and since then evidence had been filed by the respondent. The case would eventually have to go into the witness-list for hearing, and counsel now asked for a direction to that effect.

Mr. Colefax, K.C., for the respondent, remarked that when the motion for rectification was launched by Mr. Maughan's clients it was supported by one or two affidavits. The respondent had filed a considerable body of affidavit evidence, and that had not been replied to.

His Lordship said that when the evidence in reply to the respondent's affidavits was completed the case should go into the witness-list.

BENDLE'S MEAT-PORT NUTRIENT.

Mr. Justice Bray resumed, in the King's Bench Division on June 19, the hearing of the libel action by Mr. Sutton Bendle and Mr. Donald Turner Smith, trading as Sutton Bendle & Co., 148 Sloane Street, London, S.W., against the United Kingdom Alliance and Mr. Bertram Fox, the local Secretary of the Alliance at Hull, to recover damages for alleged libel in respect to "Bendle's Meat-Port Nutrient." Our report of the hearing (*C. & D.*, June 20, p. 44) concluded last week with the evidence of Mr. McAdam Eccles, and he was followed on Friday, June 19, by Professor A. R. Cushny, M.D., F.R.S., of University College, London, who said that when Somatose is taken into the system it is not assimilated at once. Somatose, as he understood it, is mainly albumoses, and has to be digested before it is absorbed. There is no substantial difference between

the rapidity of the assimilation of Somatose and ordinary food. He admitted that he did not know what Somatose consists of. An egg contains 90 per cent. of protein, and two eggs per week would correspond with three glasses per day of plaintiffs' product for a week. But he would prefer the two eggs. (Laughter.)

Sir Frederick Lowe, K.C.: Why should you prefer the two eggs?—Witness: Because I know approximately what I have.

Mr. Justice Bray: Can you live on eggs alone?—Witness: Well, my Lord, I have never tried, but I believe you could, at any rate for a week or two. Witness added that in his judgment Somatose is a meat-extract, because it is obtained from meat, and is not the whole but the residue. He would not describe plaintiffs' Meat-Port as a real genuine nutritive meat-wine, and he could not describe it as containing pure meat nourishment. He could not reconcile genuine wine with meat-wine at all.

Dr. Wm. Hale White, F.R.C.P., expressed the view that to say that this is a real nutritive meat-wine is incorrect, having regard to the doses advised to be taken.

Evidence for the defendants was also given by Mr. F. W. Richardson, F.I.C., F.C.S., and Mr. C. E. Cassal, F.I.C., F.C.S., the latter stating that the nutrient matter in plaintiffs' wine was too absurdly small to constitute the article a nutrient from the meat point of view.

The hearing of the case was at this stage adjourned till June 29.

National Insurance Act.

DOCTORS' AGREEMENTS AND PRESCRIPTION DUPLICATION.

On Tuesday, June 23, the Divisional Court of the King's Bench Division, composed of Justices Bray, Avery, and Atkin, delivered their reserved judgment upon the rule that had been obtained by Dr. Alfred Salter, Storks Road, Bermondsey, calling upon the London Insurance Committee under the National Insurance Act to show cause why a mandamus should not issue commanding them to restore his name to the list of London panel doctors, it having been struck off because he declined to write his prescriptions on the duplicate forms provided by the Committee. (See *C. & D.*, June 13, p. 62, and June 20, p. 41, for reports of the hearings.)

Mr. Justice Bray, in delivering the judgment of the Court on Tuesday, said that the view that the Court took of the agreement between the doctor and the Committee was that it could only be put an end to by the act of the practitioner or after an inquiry had been held. The requirement in the varied agreement that the doctor should sign [write] the prescriptions in duplicate was one to save the chemist trouble, and it was difficult to see how such a regulation was necessary to ensure that the insured person under the Act should receive "adequate medical treatment." They therefore thought that the rule should be made absolute. An order was made accordingly.

Mr. Gore Browne, K.C. (for Dr. Salter): Rule made absolute, with costs.

Mr. Justice Bray: We will not give costs at this stage—the Committee may take the matter to an appeal.

Sale of Food and Drugs Acts.

GROUND ALMONDS.

At Wigan on June 12, Barlow's Stores, Ltd., Market Street, Hindley, Lancs., were summoned for selling ground almonds adulterated with 10 per cent. of arachis nuts and 10 per cent. of ground rice. Mr. Collingwood Williams, F.I.C., the county analyst, gave evidence in support of his certificate of analysis, and the Bench imposed a fine of 5l. and costs. The same penalty was inflicted on Thomas Lowe, grocer, Ashton-in-Makerfield, in respect to ground almonds adulterated with 15 per cent. of ground rice. Mr. Pickstone appeared for Messrs. Joseph Taylor & Co., of Radcliffe, who ground the almonds, and stated that in this class of ground almonds it was essential that the foreign ingredients should be introduced to the extent of 10 per cent. He could not, he added, justify 15 per cent., and he could not challenge the analysis.

SALT OF TARTAR.

At the Bolton County Police Court on June 22, William Burton Rushton, chemist and druggist, Farnworth, and Herbert Braddock, Ph.C., Westhoughton, were each summoned, under Section 6 of the 1875 Act, for selling salt of tartar certified by the public analyst to contain arsenic. Mr. R. H. Cleaver conducted the prosecution on behalf of the Lancashire County Council; Mr. Grundy, solicitor, Manchester, appeared for Mr. Rushton; and Mr. J. H. Hall, solicitor, Bolton, represented Mr. Braddock.

Mr. Cleaver made a statement similar to that which he made in the Manchester cases last week (*C. & D.*, June 20, p. 40), and asked the Bench to allow him to withdraw the cases on payment of costs. In the samples the amount of arsenic found was 3.6 and 8.9 grains per lb. The prosecutions were instituted because it was considered there might be danger to the public in using the article in this impure state. He did not say the two defendants were in any way to blame; he was perfectly certain they were not. They purchased the article believing it to be pure, and the wholesalers placed them in a false position, but as they sold the article they had to take the consequences.

Mr. Grundy spoke on behalf of Mr. Rushton. If the case had been proceeded with, he said, he would have taken the line that his client had committed no offence. He did not sell the salt of tartar to the inspector for internal use but for commercial purposes. As a matter of fact, the whole of the chemists in the Bolton district, in Lancashire, and, in fact, in England, could tell that salt of tartar is now rarely sold for internal use—it is always used for commercial purposes, for cleaning the hair, washing paint, etc. If the inspector who obtained the sample had asked for potassium carbonate he would have been supplied with the pure article. They did not know the salt of tartar contained any arsenic. It was sold as it was supplied by the wholesalers, who, however, had now called in stock they supplied and undertaken to supply a commercial salt that did not contain any arsenic. He did not anticipate there would be any trouble in the future. He gave an undertaking that his client would not supply any salt of tartar containing arsenic; if he did he would label it.

Mr. J. H. Hall said he would have fought the case with all the strenuousness he could command if the action of the County Council had taken other directions, but he appreciated the perfectly frank statement by Mr. Cleaver that his client (Mr. Braddock) was not to blame, and that he purchased it believing the salt of tartar to be pure. That left the defendant, he took it, without a stain on his character. It was his livelihood, and if it was thought that chemists were supplying drugs which were not to be relied upon he might shut up at once. Unfortunately he was the creature of circumstances. He gave the undertaking asked for by the County Council, and thanked them for the very fair way in which they had relieved his client from any aspersion that might be thrown upon him.

The Bench agreed that there was no blame attaching to the defendants and the cases were withdrawn on payment of costs, 1*l.* 7*s.* 6*d.* in each case.

At Ashton-under-Lyne on June 24, Thomas E. Eastwood, chemist and druggist, was summoned for having sold salt of tartar which contained 9.6 grains of arsenic per lb. Mr. Cleaver, on behalf of the Lancashire County Council, asked permission for the case to be withdrawn, subject to payment of costs by the defendant; and this was agreed to by the Magistrates. It was stated by Mr. A. E. Grundy (instructed by the Chemists' Defence Association) that if the case had been proceeded with he should have submitted on behalf of the defendant that he had a complete defence, inasmuch as the salt of tartar was not sold either as an article of food or as a drug, but merely as an article of drysalteries for commercial purposes.

Dentists Act.

"SPECIALY QUALIFIED" ACTIONS.

At the Marylebone Court, London, before Mr. Paul Taylor, on June 18, Frederick John Oaten, 5 Connaught Street, Edgware Road, was summoned for unlawfully

using the description "F. J. Oaten, D.D.S., U.S.A. (doctor of dental surgery, U.S.A.), Dr. F. J. Oaten," he not being a legally qualified medical practitioner, and not registered under the Dentists Act, 1878; and also taking and using the description "Dental Hospital training (*cum curriculo*), London, as recognised from the Royal College of Surgeons, England," implying that he was specially qualified to practise dentistry. The proceedings were at the instance of the British Dental Association, for whom Mr. R. W. Turner appeared, and Mr. Cyril Picciotti defended.

The use of the description was admitted, but it was contended by the defence that the use did not imply that the defendant was registered and qualified, as argued by the prosecution, but that he had attended lectures, and was qualified to sit for examination. It was also urged that the letters "D.D.S." negatived the idea that defendant was registered under the Act; and that he set forth with great care his American degrees. After much argument, the Magistrate said that the defendant's statement as to dental hospital training *cum curriculo* conveyed to his (the Magistrate's) mind a hall-mark, and was asserting more than a personal training. He imposed a fine of 30*l.* 9*s.*, including costs, with the alternative, in default of distress, of three months' imprisonment.

Norman Machon, of the same address, was fined 40*s.*, and costs, on each of two summonses, for unlawfully using the description "Dr. N. Machon, dental surgeries, Connaught Street," implying that he was specially qualified to practise dentistry.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

BOURNEMOUTH AND DISTRICT DENTAL CLINIC, LTD. (P.C.)—Capital 5,000*l.*, in 1*l.* shares.

NEILL'S DRUG-STORES, LTD. (P.C.)—Capital 200*l.*, in 1*l.* shares. The first directors are W. Neill and Mrs. L. Neill. R.O., 163 Ripple Road, Barking, London, E.

CHEMICAL DEVELOPMENT CO., LTD. (P.C.)—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, assayers, etc. The first directors are J. Dalton and A. A. Strong. R.O., 32 Maddox Street, Regent Street, London, W.

CURTICE PAGE CO., LTD. (P.C.)—Capital 50*l.* Objects: To adopt an agreement between H. P. van Dusen and H. F. Wareham for the acquisition of the business of a manufacturer of soap and toilet-requisites carried on by the said H. P. van Dusen.

VINCENTS, LTD. (P.C.)—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of pharmacists, chemists, druggists, drysalters, oil and colour men, etc. The first directors are G. B. Vincent and Mrs. F. M. Reid. R.O., 106 Fulham Road, London, S.W.

CHAMBERLAIN'S DRUG-STORES, LTD. (P.C.)—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of sellers of drugs, medicines, medical and pharmaceutical preparations, foods, restoratives, etc. The first directors are W. G. Chamberlain, A. B. Turpin, and E. C. C. Smith. R.O., Windmill Road, Headington, Oxford.

DURBIN'S DEVONSHIRE STORES (KINGSTON), LTD. (P.C.) (capital 500*l.*), and DURBIN'S DRUG-STORES (SURBITON), LTD. (P.C.) (capital 3,000*l.*)—Both take power to trade as chemists, and the latter is to take over the business carried on by H. S. Durbin at 19 Victoria Road, Surbiton. The first directors are H. S. Durbin, Ph.C., H. E. Durbin, Ph.C., and H. H. Graves.

VILLIXIR (1914), LTD.—Prospectus only of proposed company registered June 18. Capital 25,000*l.*, in 1*l.* shares (10,000 7*1*/₂ per cent. participating cumulative preference). Objects: To take over the business of a company of similar name, and to manufacture a hair-colour restorer. The proposed directors are W. Belcher, 28 Crane's Drive, Surbiton; R. Frean, King Street, Gloucester; and T. Jarrett, Ilam, Cheltenham Road, Gloucester. Secretary and office: E. H. Secones, Broadway House, Bromley, Kent.

STOTHERS, LTD. (P.C.)—Capital 50,000*l.*, in 1*l.* shares. Objects: To take over the business carried on by R. M. Stother at North Road, Atherton, Lancs, as "R. Stother

& Sons," and to carry on the business of chemists, druggists, drysalters, etc. The first directors are R. M. Stothert (chairman and governing director), T. H. Broughton, Mrs. E. F. J. Stothert, and A. J. Mercer. Remuneration of governing director, 1,000*l.* per annum, and free use of house, gas, electricity, and coal; of others, as fixed by the company.

Company News.

FLEETWOOD CHEMICAL CO., LTD.—Mr. E. J. Deane, 14 Dale Street, Liverpool, ceased to act as receiver or manager on June 10.

PARKER'S DRUG-STORES, LTD., have declared an interim dividend on the ordinary shares for the half-year ended March 31 at the rate of 6 per cent. per annum.

COLOMBO APOTHECARIES' CO., LTD., have declared a dividend of 10 per cent. and a bonus of 2*½* per cent., which will absorb Rs. 50,000.00, leaving a balance of Rs. 21,529.14 to be carried forward.

BOOTS, CASH CHEMISTS (EASTERN), LTD.—The twenty-second general meeting of the shareholders was held in London on June 19. Sir Jesse Boot (chairman and managing director), who presided, stated, in moving the adoption of the report and accounts, that the figures did not indicate any remarkable change from those of the past few years, the only new development in the chemist's business being its first full year's working under the National Insurance Act. During the twelve months the dispensing department, its prices and accounts so far as they relate to insured persons, had been really under State management through the National Insurance Commissioners; and he added that when experience has established a permanent basis on which to adjust variations in prices and methods of administration the present uncertainty of the full payment of accounts in a few localities should disappear, and the insured, the chemist, and the Government be all alike satisfied with the working of the National Insurance Act as regards the supply of drugs. The report and accounts, which were summarised in our issue of June 13, p. 43, were adopted.

GAZETTE.

Partnerships Dissolved.

GURNEY, H., and SYRETT, E. F., Harwich and Dovercourt, physicians and surgeons, under the style of Gurney & Syrett.

JOSCELYNE, E. W., and THOMAS, R. R., Park Place and St. Andrew's Crescent, Cardiff, physicians and surgeons, under the style of Joscelyne & Thomas.

CREDITORS' MEETING.

CONSEQUENT upon a letter issued by Mr. Spencer Till, solicitor, Newcastle, Staffs, in regard to the affairs of Mr. Robert H. Featherstone, chemist and druggist, Tunstall, whose assets had been in the possession of the Official Receiver since May 6, a meeting of creditors was held at Newcastle on June 16 to consider a proposal to deal with the matter under a deed of assignment. The relatives of the debtor have offered to purchase his estate at such a price as will pay (1) the costs of the above-named assignment; (2) the costs of the proceedings in bankruptcy; (3) a cash dividend of 6*s.* 8*d.* in the pound upon all unsecured debts now owing by the debtor; and (4) the costs of the deed. An amended statement of affairs shows liabilities to unsecured creditors 1,520*l.* 6*s.* 2*d.* and to partly-secured creditors 53*l.* 16*s.* 6*d.*; the net assets are estimated at 472*l.* 8*s.* 9*d.* The meeting was informed that creditors with claims aggregating 1,007*l.* out of 1,520*l.* had already assented to the proposal. It was stated that the debtor is entirely incapacitated, and there is no improvement in his health. It was proposed to make a complete assignment of the assets to a relative in consideration of the composition.

ASAFETIDA.—The exports from Lingah, Persian Gulf, for the Persian official year March 21, 1912, to March 20, 1913, amounted to 1,002 cwt., valued at 5,750*l.*, against 264 cwt., valued at 1,702*l.*, in 1911-12, and 1,265 cwt., valued at 6,409*l.*, in 1910-11. The U.K. received 808 cwt., Germany 34*½* cwt., and Aden 88 cwt. The increase in 1912-13 was due to stocks being on hand at the close of 1911-12, and also to an improvement in the state of the Bastak district, where the gum is collected.

BIRTHS.

Authenticated notices are inserted without charge.

DALE.—At the Pharmacy, Dromore, co. Down, on June 14, the wife of James Dale, Ph.C., of a son.

HANBURY.—At The Gables, Forty Hill, Enfield, on June 22, the wife of F. Capel Hanbury, of a daughter.

JONES.—At Oddicombe, Brentwood, Essex, on June 20, the wife of R. Ward Jones, chemist and druggist (E. P. Guest, Ltd.), of a daughter.

MARRIAGES.

Authenticated notices are inserted without charge.

DICKSON—FAYLE.—At the parish church of St. Silas, Toxteth, Liverpool, on June 8, Robert Dickson, chemist and druggist, Glasgow, to Elsie May, daughter of the late Mr. Wm. Fayle, Douglas, I.M.

DUNLOP—HARLEY.—At Drummond View, Crieff, on June 17, by the Revs. A. Campbell, M.A., and George Gardiner, D.D. (uncle of the bridegroom), Thomas Wallace Dunlop, Edinburgh, to Margaret Rogers, daughter of the late Mr. James Harley, chemist and druggist, Crieff.

DUNNET—MILLAR.—At Darling's Regent Hotel, Edinburgh, on June 17, by the Rev. John G. Dickson, M.A., David Dunnet, chemist and druggist, Falkirk, to Aimée, daughter of the late Mr. Daniel Millar and Mrs. Millar, Tilllicoultry.

HYSLOP-MENZIES.—At the Alexandra Hotel, Glasgow, by the Rev. Wm. Duncan, on June 23, Thos. Hyslop, chemist and druggist, Glasgow, to Christina Macdonald, second daughter of the late Robert Meuzies, plumber, Maryhill.

WATSON—WHITEFORD.—At The Manse, Govan, by the Rev. Peter Smith, on June 23, James Trotter Watson, chemist and druggist, to Annie McNab, only daughter of Mr. and Mrs. Alex. Whiteford, 18 Howat Street, Govan.

WETTON—WEALLANS.—At Holy Trinity, Coventry, by the Rev. W. J. Easterbrook, on June 17, Harry Wetton, chemist and druggist, to Margaret Weallans, only daughter of the late Mr. John Weallans and Mrs. Neale.

Silver Wedding.

McMURTRIE—MURDOCH.—At Milltown of Rothiemay, on June 26, 1889, by the Rev. John Pillans, Huntly, assisted by the Rev. M. Park Noble, Macduff, John McMurtrie, chemist and druggist, Macduff, to Margaret Scott Mitchell, youngest daughter of Mr. George Murdoch, J.P.

DEATHS.

Authenticated notices are inserted without charge.

ADDINGLEY.—At Elm Grove, Pontefract, on June 17, Mr. John Hartley Addingley, J.P., liquorice manufacturer, aged eighty-five.

BEMROSE.—At 56 St. Famille Street Montreal, on May 26, Professor Joseph Bemrose, Ph.C., F.I.C., F.C.S., aged sixty-nine. Professor Bemrose was an Englishman and a Bell scholar, having obtained the senior scholarship in 1867. Among those who were associated with him in the School of Pharmacy were Mr. Hermann Woolley, Mr. J. S. Battle, and Sir Alex. Pedler. Mr. Bemrose passed the Major examination in 1867 and remained for some time at the Square as demonstrator. He subsequently went out to Canada as chemist to Messrs. Evans & Sons, and became Professor of Chemistry and Botany in the Montreal College of Pharmacy, where (we are informed by Mr. A. E. Holden, one of his old pupils) he was very popular with the students, in whom he always took a deep interest, and in turn he was held in high esteem and affection by all who sat under him. For many

years Professor Bemrose was at the head of the laboratories of Messrs. Lymans, Ltd., and on his retirement from that position did analytical work (public and private), frequently being called into important cases before the Court as an expert. He had many friends on this side, including Mr. R. F. Young, of New Barnet.

BLENKIRON.—At 47 Spottiswoode Road, Edinburgh, on June 23, Mr. Jeremy Blenkiron, chemist and druggist, aged fifty-seven. Mr. Blenkiron went to Edinburgh twenty-five years ago as an assistant to the late Mr. J. C. Pottage, homoeopathic chemist, Princes Street, Edinburgh. About twelve years later he purchased the business of Mr. Sidney Keith, South Clerk Street, and carried it on until 1907, when he joined Mr. Pottage as a partner, Mr. G. H. C. Rowland leaving the firm, and he continued the business after Mr. Pottage's death. Mr. Blenkiron was Secretary of the Edinburgh District Chemists' Trade Association, and was also the first secretary of the Pharmaceutical Insurance Committee, but he had to relinquish both secretaryships about a year ago on account of ill health. He was also Secretary of the Local Committee of the British Pharmaceutical Conference two years ago when it met in Edinburgh, and Mrs. Blenkiron was Secretary of the Ladies' Committee, and her gracious personality made her extremely popular. Mr. Blenkiron was of an unassuming disposition, and was held in much esteem. The funeral took place at Grange Cemetery, Edinburgh, on Thursday afternoon.

CUMMING.—At 70 Bruntsfield Place, Edinburgh, on June 17, Jean Hart, wife of Dr. John Cumming, F.R.C.P.E.

GILL.—At 30 Greencroft Gardens, Finchley Road, London, N.W., on June 20, Mr. William Sharpe Gill, chemist and druggist, manager of the perfumery department of W. J. Bush & Co., Ltd. Mr. Gill was born at Boston Spa, Yorks, about forty-five years ago. His father (Mr. Hugh Gill) was a chemist in business there, but he ultimately removed to Southport, where he built up an excellent business, specialising in a "Liquor Viola Conc.," which was held in great



MR. W. S. GILL.

repute in the North and the Midlands. Young Gill served his apprenticeship with his father, and qualified from the Liverpool School of Pharmacy, where he acted for some time as assistant to Mr. R. C. Cowley, then principal of the school. The business in Southport was ultimately acquired by Boots, Ltd., and Mr. Gill, senior, went into retirement. Then Mr. W. S. Gill, who meanwhile had developed the perfumery side of the business, went to Ayrton, Saunders & Co., Ltd., of Liverpool, to take charge of their perfumes department. About fifteen years ago Mr. Gill left Liverpool to take up the position with Messrs. W. J. Bush & Co., Ltd., which he held with conspicuous success until his death. A man of genial and attractive personality, and endowed with a plentiful energy and keen business instinct, Mr. Gill was known and liked wherever perfumes were sold. He so gained the confidence of his principals that in 1905 he was sent on a tour through Canada and the United States, visiting all the principal towns in Canada and returning enthusiastic (as he always was on business matters) about Canadian prospects for British manufacturers. A résumé of his impressions was given in *THE CHEMIST AND DRUGGIST* at the time (C. & D., April 22, 1905, pp. 639-640). Mr. Gill was a regular attender of all social functions connected with pharmacy and the druggist trade. He was an active Freemason, his mother-lodge being the Ewell Lodge (No. 1851), of which he was in-

stalled Worshipful Master in 1908. He was a founder of the West Wyckham Lodge and of the White Rose of York Chapter, and he was likewise a member of the White Rose of York Lodge and of the Columbia Chapter. A few years ago Mr. Gill had a bad attack of neuritis. He was never a robust man, and a recurrence of the symptoms took place from time to time until about a year ago his eyesight began to trouble him. Then after Christmas he broke down completely, and the end came on Saturday last. Mrs. Gill and two young children survive him. The interment will be at Hampstead Cemetery, Finchley Road, N.W., on Friday, June 26, at one o'clock.

HALL.—At Sunnyside, Scarborough, on June 15, Gertrude Mary, wife of Mr. J. L. S. Hall, 70 St. James Road, Northampton.

JONES.—At Llandovery, recently, Mr. John Jones, chemist and druggist, formerly of Oxford Road, Reading. Mr. Jones passed the Minor examination in December 1888. He had suffered a long illness, and died at his brother's residence.

LABOUCHERE.—On June 18, at his residence, 23 Chapel Street, Belgrave Square, London, W., Mr. James Labouchere, aged seventy-two. For almost half a century Mr. Labouchere had been closely connected with Mincing Lane, having been associated with the firm of Messrs. Labouchere & Co., Colonial brokers, London Commercial Sale Rooms, E.C., who deal in coffee, sugar, copra, cinchona, and other produce.

LAMBERT.—At Hull recently, Mr. Frederick E. Lambert, chemist and druggist, 143 Anlaby Road, Hull. Mr. Lambert had been in business for some thirty or forty years.

PRINCE.—At Ryde, Isle of Wight, on June 22, Mr. Julius Charles Prince, of York House, Kensington, W., aged sixty-three. Mr. Prince was vice-chairman and managing director of Apollinaris & Johannes, Ltd., 4 Stratford Place, Oxford Street, London, W., with which he had been connected for the whole of his business life. The present company was registered in 1897, and has a capital of £2,380,000. Mr. Prince had been ill for some months before his death.

RUBERY.—At Ranfurly, Lea Road, Wolverhampton, on June 20, Mr. Walter Rubery, for thirty-four years representative of Reade Bros., wholesale chemists, Wolverhampton, aged sixty-two.

TAYLOR.—At a nursing home in Newcastle-on-Tyne, on June 18, Mr. John Taylor, J.P., chemist and druggist, of North Shields, aged seventy-nine. Mr. Taylor was apprenticed to the late Mr. Robert Forth, of North Shields, and was registered as a chemist and druggist in business before December 31, 1868. He carried on business in Olive Street, North Shields, as a chemist and druggist, grocer, and ship-store merchant, and was very successful, retiring about twenty-five years ago. Since then he had devoted his attention to farming, building societies, and the local gas company, of which he was a director until last year. Mr. Taylor is survived by a widow, three sons, and a daughter, who is the wife of Sir Joseph Baxter Ellis, a former Lord Mayor of Newcastle-on-Tyne.

WOON.—On June 17, Mr. Fred. Wood, chemist and druggist, aged forty-eight. Mr. Wood was manager to Messrs. Beale & Sons, chemists, 12 Portland Road, South Norwood, and died near Balham Railway Station from syncope, due to fatty degeneration of the heart, as was affirmed by Dr. J. N. McLean, of Balham High Road, at the inquest on June 20. Mrs. Wood, in reply to the Coroner, said that her husband had not been complaining, and left home as usual on Wednesday, June 17, and later in the day she was informed of his death. The jury returned a verdict of death from natural causes.

MESSRS. DUNCAN, FLOCKHART & CO. of Edinburgh and London, have through their representative (Mr. G. Duncan Bowie) presented to the Sports Section of the North London Pharmacists' Association for competition in the bowling section a pair of silver-mounted prize bowls, with inscription, in a solid leather case. The conditions are to be formulated by the committee.

TRADE NOTES.

MESSRS. CORBYN, STACEY & CO., LTD., will close their warehouse at Brunton's Wharf, Commercial Road East, London, E., on Saturday, July 4, for their annual outing.

MESSRS. BAISS BROTHERS & STEVENSON, LTD., will close their offices, warehouses, and works at 174 to 176 Grange Road, Bermondsey, London, S.E., on June 27 for the annual outing.

MESSRS. C. J. HEWLETT & SON, LTD., will close their offices and warehouses at 35 to 42 Charlotte Street, Great Eastern Street, London, E.C., on Saturday, June 27, for their annual outing.

GIBBS'S INSECTOL is just what is wanted at present, when midges are everywhere and prevent people enjoying the pleasures of the countryside. It is made by Messrs. D. & W. Gibbs, Ltd., Cold Cream Soap Works, London, E., as a cream and a fluid, each retailing at 1s., P.A.T.A. terms. In their advertisement Messrs. Gibbs include an order-form which *C. & D.* subscribers are invited to fill up and post.

MESSRS. HOWARD LLOYD & CO., LTD., Leicester, in an advertisement in this issue draw the attention of chemists to their new list. The firm specialise in the manufacture of pills, tablets, capsules, and cognate preparations. The new list contains references to over 700 formulae for pills. Part of the list is devoted to the company's specialities, including "Colloid" capsules and perles, medicated lozenges, counter-attractions in pills, tablets, and capsules, and is well worth the perusal of the up-to-date chemist. A copy of it can be obtained on application.

MANUFACTURE OF MILK-POWDER.—Noticing the various inquiries which we receive regarding the manufacture of casein and milk-powder, Messrs. Wm. Gardner & Sons (Gloucester), Ltd., engineers, Bristol Road, Gloucester, send us particulars of machinery which they make for the purpose. Messrs. Gardner have had considerable experience in this class of machinery, and, as a consequence, have been able to perfect the design of plant for condensing and drying milk-powder. Those of our readers who are interested should address their inquiries to this company.

ANZORA CREAM.—This popular preparation is now being widely advertised, and the Anzora Perfumery Co., in order to further sales, have secured the whole front page of the "Daily Mail" for July 2. Such publicity will no doubt give a great impetus to the sales, and retailers may obtain reproductions of the whole page for window and shop display from the Anzora Co., 32 to 34 Willesden Lane, Kilburn, N.W. The real Morocco leather cases for carrying "Anzora" when travelling, referred to in our issue of June 13, p. 45, may now be had in black, brown, maroon, and red, and should find a ready market.

P.A.T.A. PROTECTED LIST for June contains the following additions, viz.: Carter's Little Nerve Pills and Carter's Iron Pills; Huxley's "Plasma" Dusting-powder (two sizes); Huxley's "Antiseptic Absorbent" Dusting-powder (two sizes); also "Toinoco Papier Veluette." Several articles have been altered in price this month, including Armour's Beef-juice; Beetham's "Lait Larola," the sixpenny size of which is discontinued, as already reported in the *C. & D.*; Grossmith's Brilliantines; Idris "Tonalka" Water (not now put up in syphons); Miriam's Food; and Dr. Rooke's cod-liver oil. The alterations in prices for these come into force on July 1.

"UP-TO-DATE PHOTOGRAPHY" is the title of a brochure which has been produced, for distribution by retailers, by Rajar, Ltd., manufacturers of photographic plates, papers, and films, Moberley. It is a guide to the successful working of Rajah roll-films, and treats in a practical way of the methods of exposure and development, the most suitable formulae for the developers and fixers being given. At the end are a price-list of the various roll-films and a reference to the cameras in which the different sizes can be used. Photographic chemists will find the booklet appreciated by customers,

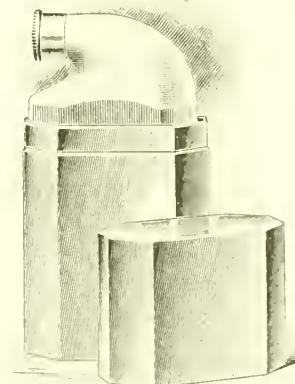
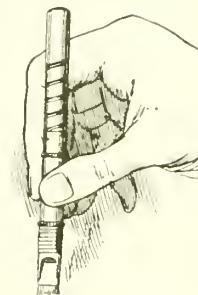
and in writing for a supply to Rajar, Ltd., should indicate the quantity that can be distributed.

BATH CRYSTALS.—The special line to which attention is drawn in the advertisement of Messrs. Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C., is a series of bath crystals. The attractive manner in which the Christy crystals are bottled is noteworthy, although not unusual with this firm. Much attention has been devoted to labelling, sepia lettering on tinted paper being employed, and the corks are finished with brown or white leather, according to the grade. The colouring and perfume of the crystals are also distinctive. A suitable showcard has been produced, and is supplied to purchasers of the bath crystals. With each card is given an adhesive price-slip, which the retailer varies according to the grade of bath crystals which is kept in stock. We have examined a specimen of these crystals, and Messrs. Christy inform us that they will be glad to send to any chemist a specimen bottle of crystals with quotations.

A NEW MAGIC ERASER for removing ink from ledgers and other surfaces where an alteration is desired is introduced by Messrs. Barclay & Sons, Ltd., Farringdon Street, London, E.C. In construction and principle it resembles a pencil, but instead of the lead there is a bundle of spun glass, which forms a brush at the end, and by simply rubbing this on the paper the ink is removed. Our sketch shows how it is used. There could be nothing simpler, and certainly nothing in the eraser line more effective. It is equally good for ordinary writing-ink or for typewriting, and it is excellent also for touching up photographic negatives. Messrs. Barclay are putting it on the market in small showcases holding a dozen. These cost 4s. per case net, thus enabling the retailer to sell each pencil at 6d., and refills are also supplied to retail at 3d. each. This is a line that chemists should stock, for it sells at sight.

ODOL CASES.—The illustration shows the new metal protective case for a bottle of Odol that has been brought out by the Odol Chemical Works, 59 to 65 Park Street, Southwark, London, S.E. The purpose of the case is to protect perfectly the bottle when travelling. Users of Odol generally trust to luck that the bottle they carry in their travelling-bags will escape injury, but usually there comes a time when, perhaps from a little extra energy on the part of a railway porter or from the fall of a portmanteau from the top of a cab, the indispensable bottle is broken, depriving the traveller of his accustomed dentifrice, and distributing the Odol in places where it is not needed. Such inconveniences are obviated by using a protective Odol case. These are made in nickel-plated or silver-plated metal or in solid silver, and are advertised as obtainable from chemists, to whom a trade discount of 25 per cent. is made.

THE USEFULNESS OF BROMURAL-KNOLL in mountaineering is the subject of an article by Dr. Baur (Berlin) in the "Zeitschrift des Deutschen Touring-Club" for May. Dr. Baur states that it is well known that many people sleep badly when they attain a certain height. It is explained that disturbances in the circulatory system,



particularly in the brain, as well as increased nervous irritability, result from dilation of the vascular system with increasing height, as a result of the diminishing atmospheric pressure, with consequent insomnia. Dr. Baur finds that Bromural-Knoll, in doses of 5 to 15 grains in the evening, half an hour before bedtime, twice weekly, diminishes sensitiveness to such disturbances, produces no untoward symptoms, and can therefore be recommended as a harmless and effective drug for the insomnia of mountain regions. Messrs. Knoll & Co., Ltd., 8 Harp Lane, Great Tower Street, London, E.C., will supply further particulars to inquirers.

PROVIDOL SOAP AND CREAM.—It is a well-known fact that mercuric chloride decomposes when it comes into contact with soap, so that its utility as a toilet antiseptic is limited. Some time ago two German doctors, as the result of chemical and bacteriological investigation, succeeded in producing a compound of mercury phenol and sodium (called "Providol"), which is perfectly stable in the presence of soap, and has been proved to be bacteriologically more active than mercuric chloride, 1-in-2,000 solution destroying staphylococci in soap solution within ten minutes, although mercuric chloride in the same solution failed to sterilise the solution in three hours. Providol has other useful properties, but for the present all that we desire to notify is the fact that the Providol Co. have introduced a Providol toilet-soap which is antiseptic and is suitable for the toilet, especially for those who have skins that are easily affected by wind or weather. It makes a good creamy lather, and is well suited as a head soap and for use under any circumstances in which it may be necessary to guard against infection. The soap has been a remarkable success in Germany, and the company are now introducing it into this country, and are inviting chemists to apply to them for the conditions upon which they may enter a window-dressing competition of the sixpenny tablets, this method of advertising being adopted for introducing it effectively. The company are to give a first prize of 50*l.*, second of 25*l.*, third of 10*l.*, and 100 consolation prizes of a guinea each, for window-shows of Providol soap. "Providol" cream is a toilet-preparation put up in sixpenny and shilling tubes and combining the antiseptic properties of Providol with a skin softening and preserving base. Both soap and cream are packed in an original and distinctive style. A Providol medicinal soap is also made which sells at 10*d.* per cake. This is much used by dentists and surgeons before and after operations. The company have appointed Mr. W. Bonser Hayward, 17 Lawrence Lane, London, E.C., as the sole agent for the United Kingdom, and he will supply on application further particulars in regard to the soap and cream.

PRESCRIPTION PROBLEM.

THE last problem in prescription-reading, which was published in the *C. & D.*, June 6, p. 34, was attacked by a good many of our readers, but only about fifty were able to decipher the script with any approach to accuracy. The item ordered is "Mist. Begbie," which obtained its name from the fact that the combination was originated by the late Dr. Warburton Begbie, of Edinburgh. The composition of Begbie's mixture is as follows :

Ac. hydrocyan. dil.	...	...	3 <i>ss.</i>
Ac. nitrici dil.	...	...	5 <i>ijj.</i>
Glycerini	...	...	5 <i>j.</i>
Inf. quassiae ad	...	...	5 <i>vj.</i>

M.

Dr. Begbie was of opinion that a nitro-compound is formed by the action of the nitric acid on the glycerin, and that the mixture on this account acquired special properties. The mixture is employed as a tonic for consumptive persons, and it relieves the cough. Among the postcards sent in are many solutions wide of the mark, which is probably accounted for by the fact that the particular mixture had not come within the experience of the

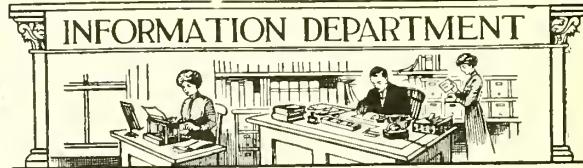
competitors. The following, who sent correct replies, posted their cards on June 5 :

Mr. W. NIMMO, 12 Earl Grey Street, Edinburgh.

Mr. A. T. RUTHERFORD, Sydney Crescent, Newbiggin-by-the-Sea.

Miss E. WEBSTER, The Laboratory, Haddington.

To each of these we award a copy of any of our Chemists' Dictionaries, and we shall be glad if the successful competitors will let us know their choice. Another facsimile will be given in an early issue.



INFORMATION DEPARTMENT

Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICS CANNON LONDON" (two words).

Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

2/56. Makers of perforated Court-plaster in partitioned boxes (one side plaster, other side stypic), bearing on front "Hygeia," Goddess of Health, and inside a representation of an ostrich.
 3/38. "Cutexol."
 5/66. "Acorn" brand preparation of santolin (German manufacture).
 270/21. "Cremolia" tooth-powder.

6/13. 6/130, and 7/30. "Bormol" or "Barmol"—not "Baramol."
 8/50. "Lioris" perfume.
 8/500. Pullman's bleaching powder.
 8/501. Lefebre's perfumery, etc.
 8/502. "Uroids."
 8/49. "Premiere" brand silkworm gut.
 8/63. "Melba" face-powder.

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

Coleman's catarrh-cure, | Powder paper (in sheets),
 254/660 245/12
 Copper sulphate (French makers) Propert's cloth-balls, 231/44
 Correspondence tuition in pharmacy (Costa Rica inquiry), 254/5 Protolin, 241/67
 "Cromer" sea-salt, 254/41 Purple-shouldered flanged pill-boxes, 251/320
 Crepoline, 255/54 Pyocyanase, 238/5
 Gouraud's Oriental toilet-powder, 250/58 Pyridine, 246/450
 "Guest Room" soap, "Queen Mab" vaporisers, 247/11
 247/43 Riodine capsules (Astier), 259/51
 Lukens cat-gut, 250/9 Rosaline toilet preparations, 253/460
 "Lumos" toilet specialities, Splinter-forceps (makers), 250/340
 248/44 Spring's "Stimuland," 237/11
 "Luxur" hair-tonic, 250/430 Stephen's ink, 255/562
 Lymphoid compound capsules, 256/56 "Sterile" brand dressings, 242/39
 "Mirro" toilet-articles, 246/230 Swift's arsenate of lead, 233/15
 Molteni's injection, 250/10 Swift's gout specific, 233/150
 Mucol, 248/41 Swing stoppers, 258/24
 Nail-trimmers (makers), 250/34 Varilaxine, 257/67
 Nosophen, 244/5 Velda's lip-salve, 258/5
 "Noxona" (for washing dogs), 250/52 Veratrone, 257/70
 Pill-making machinery Vergotinine, 256/72
 (power), 250/59 Veterinary surgical instruments, 230/301 and 245/38
 Pneumosan, 249/43 "Walkeasy" plasters, 255/25
 "Poudron" toilet-paper, 251/48 Wright's blood-testing pipettes, 251/67
 Post's "C.B.Q.," 248/393 Zeiss microscopes, 257/35
 Potash-recovery plant, 258/6
 "Powdered Paraffin," 255/36 Zog, 255/56

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Question of a State Medical Service

is, I am convinced, quite outside the range of practical politics, and likely to continue so for many years to come. There is little doubt that it was considered and dismissed as impracticable before the Insurance Act was formulated, and it is more impracticable now than ever. The vested interests created by the Act are too many and too important to be overcome; it is unthinkable that the great army of paid administrators of the Act should be dismissed to limbo, or that equivalent offices could be found for them under the new scheme. The hostility of the Fabian Society to the Act is confessedly due to its being regarded as a bar to a State service, not a step towards it; and the utterances of the heads of the great Approved Societies on the subject (to which I referred a fortnight since) are all against it. Even the establishment of State Dispensaries would be difficult in face of these facts, and though Dr. Brend thinks they would be more economical than dispensing by chemists, this opinion is open to question, nor is economy the only consideration. They would certainly not be more economical in rural areas, and they would be resented by many of the insured as carrying a stigma of inferiority. If we regard medical service as a whole, these objections have an immensely increased force, and others may be added. A doctor here and there may be in favour of the change, but the great bulk of the profession would be against it, unless the salaries paid were much higher than their incomes under the Act; and the soreness (unreasonable enough) which some practitioners show with regard to the tuberculosis service is proof enough that Dr. Brend's proposal to run the two systems side by side would not work.

The Tariff Question

is just now receiving even more than usual attention, and many suggestions are being, and will continue to be, made with regard to it. It is one of the principal subjects for discussion at the forthcoming conference, and the discussion will doubtless be a valuable contribution towards a better result than has yet been attained. But one vital fact, beside which nice points like those your correspondents have been debating are negligible may be overlooked. No Tariff can be satisfactory if we are not to receive full payments for accounts that are in strict accordance with it. I commend to the consideration of those who think all will be well with us if only the Tariff is raised sufficiently the story of the Irishman, who said of a defaulting debtor, "Bedad! if I'd known he would never pay me, I'd have charged him double!" By all means let us get an improved Tariff if we can, but we must not forget that our trouble arises from the fact that we have agreed to accept, in certain circumstances which we cannot control, a less payment than that to which the Tariff entitles us. Upon this point, as I have said before, our efforts to obtain better terms should be concentrated.

"A Dust about Trifles,"

as "Mortar" puts it, in your last issue, sums up with rough accuracy the differences of opinion regarding the methods of charging small quantities of drugs called for on panel prescriptions. But the unfortunate part of the matter is that, when particles of dust are multiplied by 10,000, the cloud assumes an alarming density, and I am not sure that it is not the large number of such trifles that accounts for the "more serious disabilities" which your correspondent regards as so much more important. The great trouble with pharmacy has been that the larger part of its professional side has been based upon the dispensing of what, from the point of view of quantity and cash value, really are "trifles," and quite insignificant at that, while that portion which is of supreme importance

to the lives of the community, and which ought to be handsomely paid for—namely, the skill of the pharmacist—has been priced in recent years as if it were the work of a bricklayer, at so many pence per hour. Can we overcome this fatal blunder in the Tariff by futile discussions on the profit to be charged on individual items of drugs? I doubt it! The dispensing-fee is what ought to be looked after for the future. The present duty is for the Council of the Society to insist on more money from the Exchequer to meet unpaid accounts.

The "Personalities" Column

in your last issue is a very full and exceedingly interesting one, and several of the items would call for a note to themselves. Our sincere congratulations accompany the presentation to Dr. Power, than whom no one more highly deserves such an honour. Professor Crossley's promotion is thoroughly well earned, and, while we all regret that his services are being lost to the Pharmaceutical Society's School, that does not prevent us offering him our best wishes for his future in the more important sphere. Pharmacists in Parliament are going to be of still greater usefulness during the next few years, until the Insurance Act is placed on a proper footing, than they have ever been, and Mr. Rowsell is one of the best for the position. He has been one of the quiet workers in pharmacy, and his energies have not been confined to what may be called his official work. He is an all-round man of great capabilities, and any constituency might be proud to have him as its representative in Parliament.

More than Thirty Years Ago

I learned from experience that the use of methylated spirit in the preparation of liniment and tincture of iodine was a detestable practice, altogether apart from the question of its legality, and I have long been under the impression that everyone knew that such a proceeding is really outside the limit. I hope I am right with regard to pharmacists, but it seems that I am wrong as to the medical profession. I suppose every generation, as it grows up, must learn by its own experience why certain things must not be done, but I think it would be well were some definite cautionary statements to appear in our text-books where latitude might reasonably be thought to be allowable, giving the reason, apart from the fiscal one, why certain preparations must not be made with methylated spirit. Were this done, the errors would surely become less common than I fear they sometimes are at present, of substituting something which happens to be cheaper.

Horns

of many kinds, the chief of them having been the so-called unicorn's horn, have from time immemorial held a great place in medicine, and what Mr. Douglas Carruthers, in his "Unknown Mongolia," tells us of the wapiti horn, still extensively used in China, recalls half-forgotten chapters in our own medical history. The wapiti is found wild in the upper basin of the Yenesei River, a district belonging naturally to Siberia, but now subject to China. It is the home of a people of primitive habits, who live almost entirely on their reindeer, and the only trade they have with outsiders appears to be in skins and wapiti horn. The latter is collected at Sabie, on the Bei-kem, an affluent of the Yenesei, the animals being caught alive, kept in enclosures, and having their horns sawn off yearly while still soft. The horns are then boiled in weak tea to preserve them, and, when ready for export, are sent down the river to Cha-kut, where they fetch enormous prices, as much as 25/- being sometimes paid for a heavy pair. The average price is about 10/- per lb. The horn is supposed to possess tonic properties, and a complete pair is said to be a prominent object in the best-appointed Chinese pharmacies.

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BORACIC ACID CRYSTALS	35/- cwt.	Finest Pure LIQUORICE JUICE	9/- lb.
No. 1 Finest Pure CRUSHED LINSEED	22/- cwt.	Finest Compound LIQUORICE POWDER	8/- & 1/1 lb.
No Oil Extracted			
No. 2 Pure CRUSHED LINSEED	21/- cwt.	PUMICE POWDER Extra Finest Levigated	35/- cwt.
No Oil Extracted			
Best Cleaned LINSEED	22/- cwt.	No. 1 Finest Light Pure PRECIP. CHALK	23/- cwt.
EPSOM SALTS, E.S.S.	10/- 6 cwt.		
Purified, Clean, and Dry	11/- ..	Finest Pure STARCH POWDER	22/- cwt.
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By arrangement with Messrs. Macmillan & Co., Ltd., we are able to offer this work (published by them at a guinea net) to “C. & D.” Subscribers at 7s. 6d. carriage paid in the United Kingdom, and 8s. 6d. Abroad. The work is by the late A. C. Wootton (for many years Editor of “THE CHEMIST & DRUGGIST”), and is in two volumes, bound in maroon cloth. The twenty-four chapters deal with every phase of the history of chemical and galenical pharmacy from the earliest times, and include biographies and portraits of many noted men in medicine and pharmacy. The “Chronicles” tell about the origin of the more popular medicines and trace their development to official status. Most fascinating and readable to pharmacists, who are advised to secure a copy by ordering from

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Editorial Articles.

The Revenue Bill.

THE Revenue Bill, in what is probably its final form as a Bill, is now before the country. It is an open secret that it does not as it stands embody all the fiscal proposals which it was expected earlier in the Session would find a place in it. Nevertheless, it still contains much that must be of general interest to our readers. The greater part of the Bill is occupied with amendments to the provisions of the Finance (1909-10) Act, which impose the land-values duties. These changes aim at giving effect, in the light of the experience gained in the administration of the Act, to the principles underlying the land-taxes—namely, that they should be charged only in respect of unearned increment-value in land. Accordingly, the Bill adds to the list of deductions the money or labour spent in improvements which may be claimed when the duties are assessed. At the same time, it introduces the principle of the Income-tax Acts in granting a remission of some of the land-values duties to small investors having incomes of not more than 160/- per annum.

But it is with the valuation clauses of the Bill that our readers will mainly be concerned. These clauses are intended to lay the foundation for a change in the system of levying rates which will affect every rateable occupier in Great Britain. In this connection the

Revenue Bill was one of three measures of fiscal reform which its authors proposed to carry through in this Session of Parliament. The first of these—the Finance Bill, was to provide, chiefly by an increase in the income-tax—for a surplus which could be paid out of the Imperial Exchequer in relief of local rates. This relief, which it was calculated would amount to as much as a rate of 1s. 6d. in the pound in towns, was to be given only to so much of any rateable property as consisted of buildings and improvements, and not to the rate levied on the bare site-value of the land on which the buildings stood. As this could not be carried out under our present system of rating, by which rates are levied on the value of the whole hereditament, consisting of the site, buildings, and improvements, if any, the need arose for the other two Bills. The Rating Bill was intended to provide for the levying of separate rates upon the site-value of land and upon the value of the buildings and improvements. The Revenue Bill provides for a valuation which shall divide up the rateable value of the holding of every rated occupier, so as to distinguish the value attributable to houses, buildings, and improvements and the value of the bare land without the houses, buildings, or other improvements. Unfortunately for rate-payers it has been found necessary to postpone the Rating Bill to next Session of Parliament, and with it the intended relief to local rates from the Imperial Exchequer is also of necessity postponed. The Revenue Bill remains, and, with its provision for the new valuation, seems likely to be carried into law. It is to the importance of this valuation that we particularly desire to draw the attention of our readers. Power is given to the Commissioners of Inland Revenue under the Bill to require from every rated occupier a form filled up with certain particulars, which are essential for the carrying-out of the new valuation. Although nothing is expressly laid down on the subject, it may, we think, be taken for granted that as rated occupiers are called upon to furnish these returns, they will have the corresponding right to object to any valuation which may be based upon the returns made by them. They will thus have a right which they did not enjoy in regard to the valuations made under the Finance (1909-10) Act, to which a right of objection was allowed only to owners or persons having some of the rights of an owner. This right, we think, ought to be freely exercised in any case in which the value appears to be fixed without sufficient regard to the interest of the occupier. The rated occupier, as a rule, would have an interest in having the site-value of the hereditament fixed at a sufficiently high figure. This would not only ensure a fuller measure of relief in the shape of grant from the Imperial Exchequer, but would lighten the remaining rating burden which the buildings and improvements would have to bear.

British Spirits.

SINCE 1906, when the present constituents of the industrial variety of methylated spirit were sanctioned by Parliamentary powers and the Revenue authorities, the use of so-called "absolute" alcohol has extended in this country, and English patent-still distillers and rectifiers now produce a highly rectified spirit of 98 and 99 per cent. alcoholic strength, so that there is no need to import this kind. Some varnish-makers are now demanding a stronger spirit than a 67 o.p. in order to produce that brilliancy and permanency so characteristic of some French

varnishes, but, owing to the presence of water in the industrial methylated spirit used, an idea prevails that the Excise laws prevent the use of "absolute" alcohol in methylated spirit. Nothing of the kind. The Excise are indifferent as to high strengths, and only interfere when so low a strength as 60 o.p. is reached. Consequently anyone can procure as strong a spirit from an English distiller as he cares to pay for, and this applies equally to methylators, from whom varnish-makers get the denatured product. Another point in connection with this question of production of high strengths concerns the distiller. There are perfume-makers in this country who complain of the "coarseness," "crudeness," and odour of the English variety of plain spirit and therefore import a blander spirit for their purpose from Germany, Norway, etc. What are our distillers doing to meet this demand? Obviously for perfumery production a "softer" spirit is required than that produced for ordinary methylation purposes. It is a question for the patent-still distiller or the rectifier to settle. Another matter in connection with methylation is the necessity nowadays for granting the rebate on mineralised methylated spirit. The difference in price, something like 5d. per gal., is too great. This is regarded in some quarters as an anomaly. It was secured by the recommendation of the Industrial Alcohol Committee. A cheaper industrial alcohol is urgently required for motor and heating purposes, and the question of the differentiation between foreign and British spirit is receiving close attention from those interested, so far as it affects the price of methylated spirit. In 1905 this question was not considered ripe for consideration from the point of view of the Industrial Alcohol Inquiry. Should more recent investigations with "absolute" alcohol result in an increased demand for industrial spirit, one of the first results will be a demand for the removal of the differentiation import-duty, as it is hoped that in that way the price of British spirit will be correspondingly lowered. Such are the expectations in some quarters, but the question is not a simple one; in fact, it is one of the most difficult problems that the Revenue authorities, including Chancellors of the Exchequer to several Governments, have had to consider. It is still a problem, and in official quarters the feeling is that early reconsideration is unavoidable.

"A Treasury Unlock'd."

WITH this issue we complete the eighty-fourth volume of *THE CHEMIST AND DRUGGIST*, and it is rounded off by the inclusion of an index by means of which the treasury of information can be unlocked at any moment. With Isaac D'Israeli many of us have had cause to venerate the inventor of indexes, and especially the unknown labourer in literature who hit upon the idea of arranging the items of an index in alphabetical order. In many ways the indexes which are included in the last issues of the half-yearly volumes of this journal are unique. There is nothing so complete in trade journalism, nor is there anything that comes within measurable distance. We recognise that as the pioneer in trade literature a high standard is expected of us, and that while giving weekly information on thousands of topics, it is our duty to provide a ready means of gaining access to the "treasury." It will be noted that in another respect our index is unique, in that the entries refer to the special index folio which is printed at the *bottom* of the page. We mention this because the point is sometimes overlooked, with resulting confusion.

The New Pharmacopoeia.

As far as can be at present stated, the new British Pharmacopoeia will be on sale in October, but it is expected that a definite statement will be made after the meeting on July 13 of the Executive Committee of the General Medical Council. At the meeting referred to the final proof of the Pharmacopoeia will be passed for the press, and after that time will be needed for printing as well as to carry out the legal requirements by which, for example, the price of the work is arranged in consultation with the Privy Council, and the "Gazette" notices published. We learn on inquiry that the announcement regarding unauthorised disclosures of the changes in the new work refers especially to the article in "The Times" which we quoted in our issue of June 6. The fact that changes may yet be made in the proofs that have been circulated privately to various experts is the reason why it was found necessary to warn the public regarding "pretended disclosures." We do not think we are betraying any confidences when we state that the work is to include certain special drugs and variations in galenicals suited for India and the oversea Dependencies. Some of these monographs were formerly included in a detached supplement, but this system, we understand, is to be discontinued, thus emphasising the imperial character of the work. In view of the official announcement that the Pharmaceutical Society of Great Britain will take no part in the preparation of future editions under present conditions, it is probable that the General Medical Council will revert to the older method of entrusting the work of revision to medical men who can claim special knowledge in pharmacy. Whether this will be to the best advantage of the medical and pharmaceutical users of the Pharmacopoeia is another matter.

Extravagant Prescribing.

MR. ALBERT HAGON's remarks to the Cardiff Pharmaceutical Association in regard to prescriptions written by panel doctors in that district (p. 102) form an independent corroboration of our note last week regarding the prescribing in another part of the country. Mr. Hagon shows that there is wide variation in the values of medicines prescribed by Cardiff panel doctors; indeed, if the practice of some of them were universally followed the Drug Fund would need to be twice or three times more than it is at present. The line of inquiry followed by Mr. Hagon appears to be that which is necessary in districts where the Drug Fund has been exhausted and there is serious discounting of chemists' accounts. In every instance of the kind that has been brought to our notice there has been the same experience—some doctors prescribe entirely irrespective of the funds in hand, and quite extravagantly compared with the manner in which club doctors were accustomed to dispense for their patients. The doctors of Cardiff who are on the Panel Committee are giving the Pharmaceutical Committee every assistance to check the extravagance complained of, and this co-operation should do good service to all.

Another Medical View.

IT is the turn of "The Lancet" to throw a few bricks at opticians. The grievance which our contemporary harbours is that the British Optical Association's examination comprises subjects such as the naming of pathological microscopic specimens and a knowledge of the anatomy and physiology of the eye. This is followed by the usual gibe at sight-testing opticians. Our view is that since it is the resolve of the General Medical Council to

oppose the legal recognition of opticians, the medical profession have no right to offer criticism of any steps which may be taken to improve the educational status of sight-testing opticians. If an Opticians Bill were before Parliament it would be open to the General Medical Council to take steps to reserve to themselves any vested interests which Parliament could be persuaded are possessed by medical men. This was done in the case of the Pharmacy Act and the Dentists Act, with the result that registered medical men with only an elementary knowledge of pharmacy or dentistry may, if they choose, carry on the business of a chemist and druggist or practise as dentists. The Pharmacy Act definitely limits the subjects which may be required of candidates for examination so that these should not include any medical subjects. It does not follow, however, that this could be repeated in any modern legislation affecting opticians. Views on general education and on medical matters have advanced very much within the last forty years.

Digitalis Preparations

DR. W. LEGGE SYMES in some observations ("B.M.J.", 1914, I, 1343) on the stability and activity of tincture of digitalis, reviews the work that has been done on the subjects, and, as a result of his observations of the physiological activity, assayed on frogs, of a series of tinctures of digitalis prepared according to the British Pharmacopoeia, he finds that weak tinctures show little or no change in a year or more, while active tinctures deteriorate much more rapidly. Of those initially within 25 per cent. of standard, all were more than 25 per cent. below standard after a year's storage. Of those initially more than 25 per cent. above standard, only one-half were within 25 per cent. of standard after one year's storage, and these had lost 20-70 per cent. of their original activity. In a few samples deterioration was recognisable one month after manufacture. Records are given of duplicate assays of a series of tinctures after a year's storage, thus serving to check the consistency of the results. Dr. Symes has also examined non-official and non-alcoholic preparations of digitalis, as well as solutions of digitalin (French, German digitoxin), and arrives at the following conclusions:

1. Few tinctures of digitalis are initially below standard.
2. Tinctures not below standard vary 200 to 300 per cent. in initial activity.
3. All such tinctures after a variable period of constant activity undergo deterioration, which may commence within a month of manufacture, and may amount in a year to 70 per cent. or more of their initial activity.
4. Concentrated alcoholic extracts of digitalis-leaf compare favourably with and behave as the British Pharmacopoeia tincture.
5. Solutions of crystalline French digitalin (German digitoxin) are more stable than the above.
6. Commercial "non-alcoholic" tinctures and allied preparations are not trustworthy.

Although there is little of a novel nature in these observations, we give prominence to them because of the galenical importance of the subject.

VITAMINE.—In the last number of the "Journal of Physiology," Dr. Funk publishes further evidence of the curative power of the vitamine he has separated from rice-polishings. This vitamine added to polished rice suffices to keep pigeons in health while under observation for prolonged periods.

ESSENTIAL OILS AND PERFUMES AT GRASSE.—"L'Agriculture commerciale" estimates that between 6,000 and 7,000 tons of flowers are used annually for the manufacture of essential oils and perfumes at Grasse. Orange-flowers head the list with 2,000 tons; roses, 1,500 tons; jasmin, 1,200 tons; violets, 400 tons; tuberoses, 300 tons; carnations, 150 tons; cassie, 100 tons; mignonette, 60 tons; and jonquils, 500 tons.

PHARMACEUTICAL SOCIETY.

NORTH BRITISH BRANCH.

A MEETING of the Executive was held at 36 York Place, Edinburgh, on June 17, Mr. J. P. Gilmour presiding, when formal business was transacted preliminary to

THE ANNUAL MEETING

of members of the Society in Scotland. At this meeting Mr. GILMOUR made the customary statement, of which we subjoin an abstract :

Despite the perturbing influence of National Health Insurance innovations, with one exception more apparent than real, all the departments of the Executive's work had been maintained at more than the average high level and efficiency. There has been an increase of twenty-four new members in Scotland, and the general expenditure was less by 98*l.* 15*s.* 3*d.* Reference was also made to the library and the evening meetings as departments of the work of the Branch, Mr. Gilmour remarking incidentally that the publication of the new Pharmacopœia would open "fresh fields and pastures new," upon which pharmaceutical critics, old and new, could readily forage for next winter's meetings. The examinations were also dealt with, and with regard to the Assistants Bill, he said any form of assistants' qualification is fraught with danger to the class of registered pharmacists, and personally he was not prepared to accept the Bill, because certain proposals in it are themselves problematical. As, however, the prospects of the progress of the Bill during the present Session of Parliament are exceedingly unfavourable, it would be superfluous to discuss its merits further at this stage. Mr. Gilmour then dealt with organisation, stating that the Executive congratulates itself on the comprehensiveness and completeness of the system of local organisation for which it is responsible. The Divisional Secretaries had acquitted themselves well and had done an immense amount of useful work. In Scotland they found it wiser to retain the Divisional Secretary for special purposes of a more or less confidential character as a local representative of the Society distinct from either the local Association or the Pharmaceutical Committee, but working in close touch and harmony with both of these bodies. There are now local Associations in all parts of Scotland. The Shops Act was next touched on, and a welcome given to Mr. P. F. Rowsell's candidature for Parliament, Mr. Gilmour expressing the hope that he will be returned along with Mr. Glyn-Jones to the next House of Commons. He was strongly of opinion that, as regards the direct representation of pharmacy in Parliament, it is far more important to have the right man than to provide one on each side of the House.

Mr. Gilmour then dealt fully with the federation of Pharmaceutical Committees, dispensing in rural areas, discounting of chemists' bills, purity of the panels of chemists, etc., explaining the relationship of the Pharmaceutical Standing Committee (Scotland) to the Society, and how continuity and co-operation between the two bodies is secured. With regard to discounting, strenuous systematic endeavours are being made to curtail the abnormal expenditure, and there is ground for believing that with the introduction generally of a searching system of prescription-checking there will be detection and disciplinary control of many of the abuses which are at present inflating the expenditure. Moreover, every effort must be put forward by Pharmaceutical Committees to make the utmost use of the machinery for correcting extravagant prescribing set up under the Medical Benefit Regulations, but the opinion is gaining ground that the origin of the trouble is the failure to make the drug-bill a first charge on the funds for Medical Benefit, as was proposed in one set of draft Medical Benefit Regulations. Mr. Gilmour said that the Executive had a large amount of work to do in keeping the panels in Scotland free from the names of persons who are not lawfully entitled to be enrolled thereon. Dealing with general considerations, Mr. Gilmour, continuing, said that in justice to the Commissioners as a whole, and the Scottish Commissioners in particular, it has to be recorded that in all their dealings with chemists they have invariably striven to be liberal as well as fair. The Scottish Commissioners have consistently from the outset evinced the friendliest spirit towards panel chemists and the sincerest appreciation of the value of a properly equipped pharmacy service.

Mr. Gilmour concluded a characteristic address by rendering his acknowledgments to the members of the Society, to his colleagues on the successive Executives, and to Mr. J. Rutherford Hill and the office staff.

ELECTION OF EXECUTIVE.

The scrutineers reported that 916 nomination papers had been issued, and the papers returned showed that sixty-three members had been nominated, of whom twenty-one had signified their willingness to act if elected. Of the 871 voting papers issued 264 were returned, of which two were informal. The result was as follows :

Mr. J. P. Gilmour, Glasgow	232
Mr. David Storrar, Kirkealdy	225
Mr. Wm. Giles, Aberdeen	212
Mr. Wm. Doig, Dundee	203
Mr. Thomas Guthrie, Clydebank	206
Mr. James Lennox, Glasgow	194
Mr. James Jack, Arbroath	185
Mr. Thos. Mackenzie, Inverness	185
Mr. R. Gordon Drummond, Falkirk	184
Mr. J. H. Fisher, Dunfermline	181
Mr. Wm. B. Cowie, Edinburgh	179
Mr. James Nesbit, Portobello	179
Mr. W. S. Glass, Edinburgh	178
Mr. John A. Forret, Edinburgh	174
Mr. Archibald Currie, Leith	173
Mr. Anthony McMillan, Glasgow	172
Mr. Wm. G. Boyd, Kilmarnock	166
Mr. W. Potter Wilson, Haddington	166

Mr. RUTHERFORD HILL pointed out that Mr. Boyd and Mr. Wilson had an equal number of votes for the seventeenth place, and according to the by-laws that point required to be settled by the casting-vote of the Chairman, who cast his vote in favour of the *status quo*. Mr. Wilson being elected.

The unsuccessful nominees, besides Mr. Boyd, were :

Mr. Robert H. Sinclair, Helensburgh	126
Mr. A. Murray, Glasgow	104
Mr. Hugh M. Robin, Edinburgh	86

Mr. Thos. Guthrie is a new member of the Executive, taking the place of the late Mr. F. W. Sutherland. The Executive for 1914-15 consists of the President of the Society (Mr. Edmund White), the Vice-President (Mr. E. T. Neathercoat), Mr. W. L. Currie (Glasgow), Mr. D. Gilmour (Dunfermline), and the seventeen now elected.

VOTES OF THANKS.

Dr. COULL proposed the adoption of the report and a vote of thanks to the scrutineers, which Mr. GILES seconded, and Mr. G. F. MERSON replied for the scrutineers.

Mr. D. STORRAR, in the name of that meeting and of Scottish pharmacists, thanked Mr. Gilmour most sincerely for all the work he had done during the past and for the good work he would do for them in the future, prefacing his remarks with a reference to Jacob Bell, John Mackay, Michael Carteighe, and James Pinkerton Gilmour, showing that the last-named, like the others, had at a time of crisis proved himself to be a leader.

These remarks were supplemented with a note of high appreciation from Mr. RUTHERFORD HILL.

The CHAIRMAN acknowledged the vote, and a similar compliment was paid to the VICE-CHAIRMAN (Mr. Giles), who in his reply referred to the restrictions upon chemists contained in the Chemists' Assistants Bill, saying that these restrictions are not laid upon doctors. There is no restriction upon them for employing persons not qualified. There are several other points in the Bill which he strongly took objection to. The Pharmaceutical Society had not consulted the North British Branch with regard to it, but he thought the Branch would be in a position to prevent the Bill from applying to Scotland if they do not think the provisions are applicable to Scotland. The conditions of pharmacy in Scotland are entirely different from those in England. With regard to Insurance, he was not so much concerned about the small balance left over. His feeling is that the Government is a very good corporation to be owing them a sum of money.

The meeting then terminated.

FOR THE FOUR MONTHS ended April 30 the imports of drugs, chemicals, and apothecaries' wares into the Union of South Africa amounted to 304,681*l.*, compared with 313,302*l.* for the corresponding period of 1913.

SUMMER OUTINGS.

A Wellcome Garden-party.

ON Saturday afternoon, June 20, in ideal weather, a successful garden-party was held in the grounds of the Wellcome Physiological Research Laboratories, Brockwell Hall. A tennis competition, a gymnastic display, and well-contested races and other sports occupied the time until sundown, when a delightful *al-fresco* concert made an appropriate finish to an enjoyable time.

The British Drug Houses' Outing.

THE fourth annual outing of the employés of The British Drug Houses, Ltd., took place on Saturday, June 20, under very favourable conditions. The party, numbering between three and four hundred, left London Bridge by special train for St. Leonards, and at one o'clock dinner was served at the Royal Concert Hall, Warrior Square, which was gaily decorated for the occasion. The chair was taken by the managing director (Mr. C. A. Hill, B.Sc., F.I.C.), who was supported by Mr. Alan Hicks, Mr. W. L. Howie, and Mr. W. A. H. Naylor. At the conclusion of the meal, a vote of thanks to the directors of the company was proposed by Mr. H. S. Collins, who spoke of the loyalty of the employés and the good feeling existing between the directors and everyone connected with the company. Mr. W. J. Goldsworthy, on behalf of the staff of representatives, thanked the directors for the substantial benefit that every employé of the company had recently received by the realisation of the scheme which had been outlined by Mr. Hill when he occupied the chair at the annual outing in 1913. Mr. Hill was enthusiastically received on rising to respond to the toast. He reminded everyone present of the mutual nature of the interests in the continued prosperity of the company, which is shared by directors and employés alike. Mr. Hicks, Mr. Howie, and Mr. Naylor also spoke, and expressed the interest that each of them has in the welfare of the employés. Tea was served at 5.45 p.m., and reference was made by Mr. Hill to the good work of the stewards, in whose hands had been all the arrangements for the outing. Mr. Stubbings (Secretary of the Outing Committee) replied. The weather was ideal throughout the day, and the enjoyment so thorough that everyone was surprised when the time (8.30 p.m.) of the B.D.H. special train's return was reached.

Chemists' Associations.

THE annual outing of the Cheltenham, Gloucester and District Pharmacists' Association was held on June 16, when twenty-one members and friends joined in a motor-trip to Mineheadhampton, where tea was supplied at the Bear Hotel. The weather being favourable, the trip was much appreciated by those present.

A Most enjoyable afternoon gathering of the members of the Folkestone Chemists' Association and their wives took



GARDEN-PARTY AT FOLKESTONE.

Among those recognisable are (left to right) Messrs. Stainer, Taylor, Brown, Cuff, and Forster.

place on June 17 in the garden of Mr. Curtis's house, Julian Road, Folkestone. A number of friends from Dover

accepted the invitation of their Folkestone *confrères*, also Mr. and Mrs. French from Sittingbourne. A stroll round the garden afforded a pleasant opportunity for the interchange of opinions on matters pharmaceutical and otherwise. Mr. and Mrs. Curtis provided tea, with strawberries and cream. The Secretary, after tea, read letters of apology from members and friends who were unable to be present, including Mr. Edmund White and Mr. Woolcock. General regret was expressed at the inability of Mr. King, the President of the Association, to be present, and a letter was directed to be sent to him wishing him a speedy return to health. Mr. J. W. Stainer, on behalf of the members, heartily thanked Mr. and Mrs. Curtis for their hospitality, and a very successful meeting broke up amid general expressions of appreciation.

ON June 18 the annual botanical ramble from the Northern College of Pharmacy, Manchester, took place, when an excursion was arranged to Miller's Dale by motor *char-à-banc*. The party succeeded in finding representatives of almost all the Minor and Major examination orders. When some photographs had been taken, the journey was continued to Buxton, where an excellent tea was partaken of, at the invitation of the Principal (Mr. E. G. Bryant, Ph.C., F.C.S.). Mr. P. A. Wallace voiced the thanks of the



LIVERPOOL CHEMISTS ON THE ROOF OF STONYHURST COLLEGE.

students to the Principal for the enjoyable day he had arranged for them, and Mr. Bryant made a suitable reply. Mr. H. Berry, Ph.C., F.C.S., who has now joined Mr. Bryant in the principanship, also spoke; and Mr. K. S. Dickinson, who has resigned his position as lecturer in botany and *materia medica*, took the opportunity of thanking the students for their attention during the term and of saying a general good-bye to all.

THE annual excursion of the Sheffield Pharmaceutical and Chemical Society took place on June 18. The party and their friends left the Town Hall at 1.30 p.m. in a motor *char-à-banc* and private cars for the Dukeries, *via* Worksop, Thorsby, Lime Tree Avenue, Clumber, Budby, and Welbeck. A visit was made to "Woodside," the new residence at Lindrick of Mr. J. F. Eardley, and, after inspecting the house and spacious grounds, the visitors were entertained to light refreshments by Mr. and Mrs. Eardley. The party afterwards proceeded to Edwinstowe, where tea was served at the Jug and Glass Hotel, Mr. J. Gilbert Jackson (President) being in the chair. The riding-school and underground passages of Welbeck Abbey were visited. The return journey was made *via* Worksop, the party reaching Sheffield between nine and ten o'clock, after a trip which had proved very enjoyable, despite a heavy thunderstorm while at Edwinstowe.

THE Halifax Chemists' Association had an enjoyable outing to Knaresborough and Harrogate on Thursday, June 18. The company, numbering twenty-eight, included Messrs. H. K. Woodward (President), B. C. Hodgson, J. Patchett, Gibson Dixon, W. Bottomley, W. J. Bottomley, L. Chambers, A. Scott, P. W. Swire (Treasurer), A. Taylor, Oxley, and Drake. Most of the members were accompanied by their wives. The outward journey, a distance of thirty miles, was *via* Bradford, Otley, and Harrogate, the company travelling by motor *char-à-banc*. Though the weather was threatening and there were thunderstorms in different parts of Yorkshire, the party was fortunate in escaping the rain all day. At Knaresborough a halt was made in the Market Square, opposite "the oldest chemist's shop in England, established 1726." On a stone panel above is the inscription "Ye Ancient Pharmacy." It is many years



LIVERPOOL PICNIC GROUP AT CLITHEROE PARK.

[Photo, Cleworth.]

since the pharmacy figured in THE CHEMIST AND DRUGGIST, and now the ground-floor is shown with the excursion party lined up, the President having taken a photograph, his assistant (Mr. Scott) manipulating the shutter to enable the President to be in the group. By a strange

wherein are stored many of the articles which have undergone the petrifying process. Afterwards a return was made to Harrogate, where a splendid tea was partaken of at the Spa Café. Here the company was joined by Mr. Windemer (President of the Harrogate Chemists' Association) and Mr.



CHELTENHAM, GLOUCESTER, AND DISTRICT ASSOCIATION OUTING.

coincidence, at this time the dullness experienced all the way passed off, and the sun shone brilliantly while the photograph was being taken. The operation over, the sun withdrew! An hour and a half quickly fled visiting the Castle grounds, Mother Shipton's cave and wishing-well, the dropping-well, of petrifying renown, and the museum,



NORTHERN COLLEGE OF PHARMACY BOTANICAL EXCURSION.

Collett, a former chemist there. A short but pleasant time was spent in the Valley Gardens. The return, by Harewood and Leeds, was commenced at 7.15, and a non-stop run was enjoyed. The journey occupied about two hours, the distance being thirty-two miles. Everything passed off pleasantly, and the outing was enjoyed by all.



HALIFAX CHEMISTS AT KNARESBOROUGH.

WESTMINSTER WISDOM.

The Week in Parliament.

PARCEL-POST SERVICE.

The Postmaster-General has informed Mr. Chiozza Money, M.P., that he cannot increase the maximum weight of inland parcels to 1 cwt. The number of parcels weighing over 4 lb. is at present small.

THE CELLULOID INQUIRY.

Evidence was given on Tuesday by Mr. J. D. Kiley, the President of the Fancy Goods Trade Section of the London Chamber of Commerce, before the House of Commons Committee in opposition to the Bills for the purpose of regulating the sale and storage of celluloid articles. The Committee met again on Wednesday, when additional evidence was given.

THE OPIUM QUESTION AND MEDICINE.

The Under-Secretary for India informed Mr. Theodore Taylor, M.P., on Monday that the Government of India consider that in the circumstances of India the total prohibition of the cultivation or use of opium is uncalled for and impracticable. The Secretary of State is not able to give the assurance that the Government of India will henceforth produce no further opium for sale except for medical use. The area under opium in British India has been greatly reduced in late years, and will no doubt be further reduced in accordance with the policy of progressive restriction.

GLASGOW DRUG FUND.

In the House of Commons on Wednesday, Mr. H. Watt, M.P., put a question as to the Glasgow Drug Fund, which he suggested, has turned out 2,000/- short for the first quarter of this year. Mr. Wedgwood Benn replied that the chemists in the area referred to have been paid in full for the period ending March 14, but he reminded the hon. member that the state of the Drug Fund cannot be finally ascertained until after the close of the medical year, and any payments in the meantime are in the nature of advances. Mr. Watt: Do I gather that 25 per cent. will not be taken off these accounts? Mr. Wedgwood Benn: No, sir, but after the period mentioned the chemists' accounts will be paid in full.

THE BUDGET.

The Finance Bill of this Session continues the duty of Customs on tea, reimposes income-tax and super-tax, with amendments and modifications, and to amend the law relating to death-duties, the National debt, and grants for local purposes, and for purposes incidental thereto. The Bill is in six parts and sixteen clauses, with five schedules. Nothing in it directly appertains to our business.

The Revenue Bill, about which there has been considerable newspaper excitement, is one to amend the law relating to Customs and Inland Revenue (including Excise) and for other purposes connected with finance. It deals with land-values and cognate matters, and is explained in an article in this issue.

SALE OF FOOD AND DRUGS.

The President of the Local Government Board has informed Sir J. D. Rees that there is no present intention of appointing a committee of inquiry into the administration of the Sale of Food and Drugs Acts.

The terms of Mr. Herbert Samuel's Sale of Food and Drugs Bill, which was recently introduced in the House of Commons, have now been issued. The Bill provides for the prohibition of mixing injurious ingredients with articles of food or drugs for the purposes of sale, and for the prohibition of the sale of articles of food and drugs not of a proper nature, substance, and quality. An offence shall not be deemed to have been committed—

Where there has been added to an article of food or drug any matter or ingredient not injurious to health, if the matter or ingredient is required for the production or preparation of the food or drug as an article of commerce, in a state fit for carriage or consumption, and is not intended fraudulently to increase the bulk, weight, or measure of the food or drug, or conceal the inferior quality thereof:

Where the food or drug is a proprietary medicine, or is

the subject of a patent in force, and is supplied in the state required by the specification of the patent:

Where the food or drug is compounded as in this Act mentioned;

Where the food or drug is unavoidably mixed with some extraneous matter in the process of collection or preparation.

The following are provisions of special interest:—

Clause 3.—If any person sells any compound article of food or compounded drug which is not composed of ingredients in accordance with the demand of the purchaser, he shall be liable on summary conviction to a fine not exceeding fifty pounds.

Clause 4 (1).—A person shall not be guilty of any offence under the foregoing provisions of this Act in respect of the sale of an article of food or a drug mixed with any matter or ingredient not injurious to health, and not intended fraudulently to increase the bulk, weight, or measure, or conceal the inferior quality of the article or drug, if at the time of delivering the article or drug he gives to the person to whom it is delivered notice, by means of a label distinctly and legibly written or printed on or attached to the article or drug, that the article or drug is mixed. (2) A label shall not be deemed to be distinctly and legibly written or printed within the meaning of this section unless it is so written or printed that the notice of mixture given by the label is not obscured by other matter on the label: Provided that nothing in this section shall hinder or affect the use of any registered trade-mark, or of any label which was continuously in use for at least seven years before the first day of January nineteen hundred, but the Comptroller-General of Patents, Designs, and Trade-marks shall not register any trade-mark purporting to describe a mixture unless it complies with the requirements of this section.

Clause 5.—If any person with intent that any article of food may be sold in its altered state without notice, abstracts from the article any part of it so as to affect injuriously its quality, substance, or nature, or sells any article so altered without disclosing the alteration, he shall be liable on summary conviction to a fine not exceeding twenty pounds.

ASSOCIATION AFFAIRS.

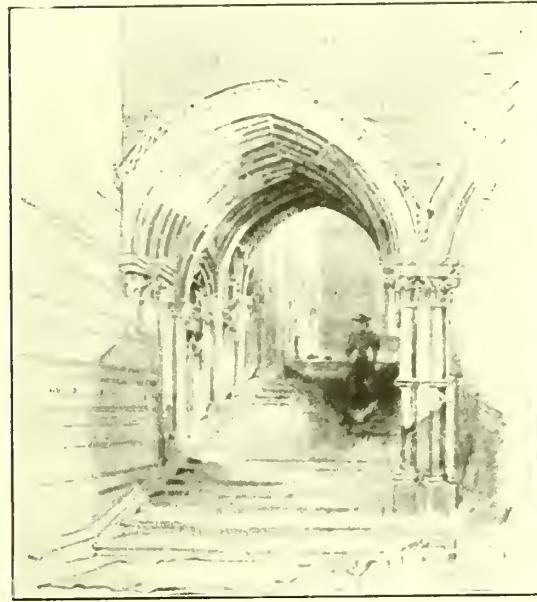
Association of Women Pharmacists.—The ninth annual business meeting was held at Gordon Hall, Gordon Square, on July 17, Miss Buchanan in the chair. Miss Hughes read the annual report, which showed that there has during the year been an increase in membership. Miss Andrews read the report of the Employment Bureau, and said that the demand for qualified women exceeds the supply. Miss Renouf's report, as Treasurer, showed a credit balance. Miss Bolton proposed, and Miss Hughes seconded, that systematic efforts should be made to bring the Association to the knowledge of all apprentices and newly qualified women. It was pointed out by the President that the latter part of the proposal has been acted on for some time past, one of the members writing a personal letter to every newly qualified woman, inviting her to join the Association. It was decided to send to all Schools of Pharmacy a notice setting forth the aims and objects of the Association, with a request that this might be posted up in a suitable place; also to send to all newly registered students a leaflet inviting them to join as associates. After discussion, it was decided that in future the subscription to the Association be 5s. for all practising members, but members leaving the active ranks are invited to retain their membership and interest in the Association, and to pay an annual subscription of 2s. 6d.

Stirling, Clackmannan, and Kinross.—A meeting of the Stirling, Clackmannan, and Kinross Pharmaceutical Association was held at Falkirk on June 10, Councillor Sinclair (Falkirk) presiding. There was a good attendance of members, representatives being present from Falkirk, Stirling, Grangemouth, Denny, Larbert, Stenhousemuir, Polmont, Alloa, and Tilloeultry. The Chairman gave a report of the meeting of the General Council of Panel Chemists held in Edinburgh on June 8, and after considerable discussion the meeting agreed unanimously to support the resolution passed at the Edinburgh meeting (see also Insurance Reports).

West Bromwich.—Members of the West Bromwich Pharmaceutical Association and their wives visited Messrs. Cuxson, Gerrard & Co.'s works at Oldbury on Wednesday, June 17. Mr. A. W. Gerrard received the party and personally conducted them over the works. Tea was served afterwards, and Mr. Kemsey-Bourne (President) moved a vote of thanks to Mr. Gerrard for his great kindness and courtesy. This Mr. Gerrard acknowledged.

Conference Country.

THE Chester Local Committee of the British Pharmaceutical Conference are issuing to each person who is to attend the meeting there on July 20 to 23 an illustrated booklet entitled "Conference Country and Chester



THE CORRIDOR, EATON HALL.

History," which comprises articles reprinted from THE CHEMIST AND DRUGGIST of April 25 and May 23. Strange to say, this is not the first time that the Conference has visited Chester. The last occasion was the Liverpool meeting in 1896. Then, on Thursday, July 30, a party numbering about 250 crossed the Mersey at 9.30, and were carried by a special train from Seacombe to Chester, where they were guided through the city by Mr. W. F. J. Shepheard and others, finishing up with luncheon in the Town Hall. Afterwards, the party enjoyed a pleasant drive to Eaton Hall, and by the courtesy of the Duke of Westminster were permitted to visit the gardens, the chapel, and a portion of the Hall. The engravings which are included here are reproduced from those that were printed in the *C. & D.*, July 25, 1896, as to which the Editor (the late Mr. A. C. Wootton) then wrote :

"Eaton Hall is a magnificent palace, the property of the Duke of Westminster. It is frequently open to visitors on payment of a fee of one shilling each, and the proceeds, amounting to about 500/- a year, are given to various local charities. The architecture and decorations of this palace, one of the stateliest homes of England, and the lovely gardens which surround it, will convey some idea to chemists and druggists of what it must be to be a duke. The most striking room in the mansion is the library, 92 ft. long by 32 ft. wide, with some 12,000 volumes, and adorned with fine, famous, historical paintings by Benjamin West, representing Cromwell Dissolving the Long Parliament, Charles II. Landing at Dover, the Battle of the Boyne, the Battle of La Hogue, and the

Death of General Wolfe at Quebec. The grand corridor contains some other noted pictures and statuary, and the decorations of the saloon and ante drawing-room by H. Stacey Marks are also worth attention."

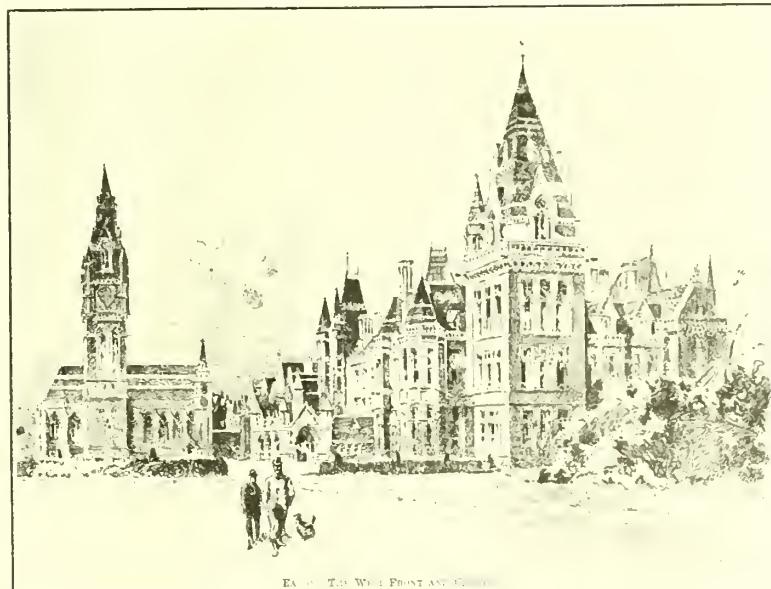
Our illustrations are of historic interest. During the interval of eighteen years the processes for illustration as well as the methods, have radically changed, and although a little art may have been sacrificed the illustration is adequate and up to date. Eaton Hall is again to be visited by Conference members on Wednesday, July 22, but the party will then lack the aftermath which their predecessors of 1896 had a chat with Mr. William Ewart Gladstone at Hawarden.

"C. & D." Series of Books.

Two New Editions.

We have just published a third edition of *Practical Methods of Urine Analysis for Chemists and Pharmacists*. The book is one of six chapters, dealing with (1) urine in health and disease, (2) chemical analysis of urine, (3) analysis of abnormal constituents, (4) microscopical examination of urine deposits, (5) optical examination, and (6) miscellaneous matters. It is a serviceable book, particularly so to those who are not medical practitioners, but who simply require to test or examine samples of urine so as to report upon their abnormality or otherwise. The fact that two editions of this have been sold suffices to prove its excellence and utility, and we think that there is still a large field for its use by chemists and pharmacists. It is uniform in size with "Pharmaceutical Formulas," and extends to ninety-six pages, including a comprehensive index. The price is 2s. 6d., or post free 2s. 9d.

We have also ready a new edition of Dodds' *Guide to Preliminary Examinations*, which has been carefully revised by Mr. G. P. Dodds, son of the late William Dodds, and contains an Appendix with the latest information regarding the Preliminary examinations required for medical, pharmaceutical, and scientific callings in the United Kingdom. It describes the subjects of these examinations, the conditions of entry, and so on, then takes up the subjects *seriatim*, giving examination-papers and the answers to them, with numerous hints to the learner in regard to the stumbling-blocks and peculiarities of each examination. The latest edition contains the regulations issued for 1914-1915, and makes a book of 190 pages, which sells at 2s. 6d. net, by post 2s. 9d.



EATON HALL: FRONT AND GARDENS.

These two books are stocked by most wholesale houses, and may be obtained through them or direct from our offices, 42 Cannon Street, London, E.C. They are also stocked by our Melbourne office.

CHEMICAL SOCIETY.

A MEETING was held in Burlington House, W., on June 18, at 8.30 P.M., the President (Professor W. H. Perkin, F.R.S.) in the chair. The first paper was by Mr. A. Chaston Chapman on

NITROGENOUS CONSTITUENTS OF HOPS.

In introducing his subject, the author said that the research was started two years ago, in order to see whether any data could be obtained to elucidate some of the problems connected with fermentation, it being probable that the soluble nitrogenous compounds extracted from hops have some effect on the development of the yeast-plant and the course of fermentation of the wort. This being the basis of the work, only the portion of the hops soluble in hot water was examined. After extracting with water, four different methods of working up were employed. The first was by precipitating the aqueous solution with basic lead acetate, then with phospho-tungstic acid. The filtrate from this was evaporated to dryness, then fractionally treated with absolute alcohol and mercuric chloride. In the second method the extract was treated with lime and evaporated to dryness, then treated with alcohol, the solution evaporated, precipitated with phospho-tungstic acid, filtered, and the filtrate similarly precipitated with absolute alcohol and mercuric chloride. The third method was to extract with ammoniacal amyl alcohol, treat this with hydrochloric acid, then shake out successively with benzene, chloroform, and amyl alcohol, all in both acid and alkaline solution. The fourth method was to treat with alcohol and acetic acid after filtering, to shake out with benzene, chloroform, and amyl alcohol, in both alkaline and acid solution. The difficulties of the extraction were considerable, as about 15 to 20 per cent. of resin was present. The total amount of soluble nitrogenous substances present, calculated into nitrogen, on the total hops was about 0.5 per cent., while the total nitrogen amounted to about 2 per cent. The amount varies with the origin of the plant, thus:—

	Kent	Bohemian	Oregon
Soluble nitrogen	0.74	0.54	0.44 per cent.
Total	2.07	1.36	1.56 "

The following compounds have been identified in the extract: *l*-asparagine, aspartic acid, choline, betaine, adenine, histidine, hypoxanthine, arginine, and potassium nitrate. The research definitely settles finally that no alkaloid similar to morphine exists in cultivated hops. In one case a very small quantity of a volatile oil, smelling like choline, was obtained, but the amount was too small for examination. The author, in conclusion, promised a further communication on the probable effect of these bodies on the trend of fermentation.

A paper was read by Messrs. B. Lambert and H. E. Cullis on the

WET OXIDATION OF LEAD.

Lead is very easily oxidised on exposure to damp air, and on this account all the previous work on the subject has been done with lead containing a small amount of oxidation-products. In order to obtain pure lead, it was found necessary to distil the metal *in vacuo* at a temperature of about 1,200° C. This was done in an ingenious apparatus made of silica, the metal started with being prepared according to Stas's method. The water used was prepared by distilling from a strong solution of baryta, and the oxygen by electrolysing a solution of baryta. Working in this way, it was found that under certain conditions only very slight oxidation took place within six months. If the oxygen was admitted shortly after the lead had been distilled, oxidation took place at once. On allowing the metal to stand for a year, then admitting the gas, it remained quite unaltered for sixteen days. The explanation offered is that the metal, after distillation, is in a condition of strain, so that it is not homogeneous. By allowing it to stand, the unstable form passes into the stable form, which is unattacked by moist oxygen.

Two other papers were read—one, by Mr. O. L. Brady, on the constitution of the nitrogen methyl ethers of the

aldoximes, and the other, by Messrs. M. O. Forster and E. Kunz on the isomeric hydrazoximes of camphorquinone and some derivatives of amino-camphor.

NEW FELLOWS.

There was an election of fellows, including the following: Mr. Harry Berry, Ph.C., the Northern College of Pharmacy, Burlington Street, Manchester; Dr. A. A. Boon, Chemistry Department, Heriot Watt College, Edinburgh; Mr. Probodha Chundra Chattopadhyay, at present in charge of the research laboratory and perfumery departments of the Bengal Chemical and Pharmaceutical Works, Ltd., Calcutta. This was the last meeting of the 1913-14 session.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. JOHN MAIN, manager of the Johannesburg branch of Messrs. Petersen, Ltd., returned to South Africa by the *Kinfauns Castle*, which sailed on June 13.

MR. J. B. WOOD, chemist and druggist, a member of the Huddersfield Borough Council, has been appointed to represent the Council on the Huddersfield Insurance Committee.

MR. F. B. HIRST, Ph.C., The Laboratory, Carlton Street, Batley, was one of the successful candidates at the Glasgow examinations for the diploma of the Spectacle Makers' Company.

MR. A. H. M. PURSE, chemist and druggist, Burn Park Pharmacy, New Durham Road, Sunderland, is the official auditor for the Insurance Committees of Gateshead, Sunderland, West Hartlepool, and Burton-on-Trent.

MR. REGINALD WILLIAM READE on June 23 received the degree of Bachelor of Arts at Cambridge University. He was placed in Honours in the Second Class and in the second division. Mr. R. W. Reade is the youngest son of Mr. Thomas Reade (Reade Bros. & Co., Ltd.), Wolverhampton.

SILVER MEDALS of the Royal Society of Arts have been awarded by the Council to, *inter alios*, Mr. John Charles Umney, F.C.S., Editor of the "Perfumery and Essential Oil Record," for his lecture on "Perfumery"; and to Mr. E. Halford Ross, of the Lister Institute, for his work on "House-flies and Disease."

RONALD LAMBERT PARRY, son of Mr. E. J. Parry, B.Sc., was at Rossall School, last Saturday, awarded the form prize in the classical fifth, of which he is top, and obtained the first prize in mathematics, Section II. The same day he played well in a school cricket-match, taking the place of an absent member of the Old Rossallian eleven.

MR. FRANCIS LONGMORE, of Melbourne, and Mrs. Longmore are now in London, and will stay until the British Pharmaceutical Conference meets in Chester, when they hope to be present. Their journey to the Old Country was by way of Sydney, San Francisco, and the United States, and before they return to their home in Melbourne they expect to have made a round of the world.

PROFESSOR HERBERT JACKSON, of King's College, London, has been appointed head of the Chemical Department of King's College, with the title of Daniell Professor of Chemistry in the University of London. Professor Jackson is a member of the Pharmaceutical Board of Examiners for England and Wales, and the above appointment is supplementary to that of Professor Crossley.

MR. JOHN H. PATTERSON, President of the National Cash Register Co., Dayton, who has been on a visit to England, has been interviewed by the "Daily News and Leader," and has given a detailed account of the new method of governing Dayton, which, he states, is conducted on the methods employed by private firms. A charter was adopted on January 1 by which Dayton is governed by a commission of five representatives elected by the people in November. The Commissioners employ a manager, and the manager selects the heads of the various departments.

London Chamber of Commerce.

THE following are extracts from the annual report on subjects which have not hitherto been so explicitly stated for publication:

REPRESENTATIONS were made to the Board of Trade with regard to the labelling, etc., of foods and drugs destined for Australia. These were to the effect that as the regulations of the Commonwealth had been altered on different occasions, manufacturers in this country had as frequently to destroy a great number of labels and replace them by others, in order to comply with the special requirements of the different States. It was suggested by the Chamber that, if possible, when the draft uniform standards are determined by the Commonwealth authorities, the same should be submitted to Chambers of Commerce before becoming law, in order that manufacturers might have an opportunity of presenting their views in regard to any particular regulation or standard that might still be considered onerous. A further recommendation was made that as manufacturers have necessarily large stocks of labels for use in connection with goods for all parts of the world, at least twelve months' notice should be given of any new regulation. These views were communicated by the Board of Trade to the Trade Commissioner in Australia, who eventually transmitted them to the Chairman of the Conference on Uniform Standards for Foods and Drugs. One of the resolutions adopted by the Conference was to the effect that the proposed regulations should not come into force until at least twelve months after they had been officially published.

PORTUGUESE STAMP-DUTIES.—On October 14, 1913, a decree was issued to carry out the provisions of a new Portuguese law imposing stamp-duties on pharmaceutical specialities and secret remedies. Inquiries to the Board of Trade as to the effect of this new law elicited the reply that it does not abrogate an earlier one passed on July 19, 1912, but that both are actually in force in the form defined by a regulation which provides that "foreign pharmaceutical specialities imported completely finished for retail sale were liable to a tax of 80.65 (2½*l.*)."
Pharmaceutical specialities imported in bulk into, or prepared in, Portugal, and each unit of these products if so prepared, are subject to a progressive tax under the new law, leviable by means of stamps or seals manufactured by the Mint of Portugal and affixed to the coverings or packages in accordance with the following scale:

		Centavos
When the sale price to the public, including stamp, shall be equal to or less than 25 centavos, the tax shall be ...	5	
From 25 centavos to 50 centavos inclusive	10	
From 50 centavos to 75 centavos inclusive	15	
From 75 centavos to 1 escudo inclusive	20	
For every 50 centavos or fraction in excess	10	

"If pharmaceutical products are put up after being imported in bulk, each unit shall be subject to two-thirds of the tax which would be due if they had been manufactured in Portugal, but in no case shall this tax be less than 5 centavos for each unit."

THE CHEMICAL-TRADE SECTION, of which Mr. John C. Umney, F.C.S., is Chairman, and Mr. D. Lloyd Howard, F.C.S., is Deputy-Chairman, reports on various matters, which have been dealt with in the *C. & D.* as they arose; and with regard to alcohol for manufacture and motive-power, the report states that representations were made to the Treasury to the effect that the retention of the existing conditions of the production of alcohol for industrial purposes is a serious obstacle to the progress of British industry. A reply was received from the Treasury suggesting communication with the Board of Customs and Excise, with a view to a full discussion with them of the proposals made (see Editorial in this issue). The Far Eastern Section reported, with regard to citronella oil, that communications were opened up with the Singapore, Penang, and Kuala Lumpur Chambers regarding the discontinuance of the production of citronella oil. It appeared that the cultivation of citronella-grass is no longer seriously undertaken, owing to the unremunerative character of the trade, but it could not be too widely known that greatly advanced prices are now quoted and the article is easily marketed.

THE PERFUMERY MANUFACTURERS' SECTION, among other matters, considered the heavy increases in the cost of raw materials during recent years, including bergamot, lemon oil, otto of rose, lavender oil, and sandal oil; increased remuneration of commercial travellers; and taxes imposed by Act of Parliament. With regard to a proposed reduction in discounts, after consideration, the Section decided, in view of certain practical difficulties likely to arise in connection with increased prices, that concerted action in this matter is impracticable for the time being.

International Rubber Exhibition.

THE fourth International Rubber and Allied Industries Exhibition and the first International Exhibition of Cotton, Fibres, and Products of the Soil of Tropical and Sub-Tropical Countries was opened at the Royal Agricultural Hall, Islington, N., on June 24, Prince Arthur of Connaught performing the ceremony, the President of the exhibition being Sir Henry Blake, G.C.M.G. A private view was accorded the Press previous to opening, and from what a *C. & D.* representative saw it may at once be said that the previous effort of 1911 has been totally eclipsed as regards size, scope, and excellence of the exhibits. The handbook which has been issued to commemorate the exhibition is a remarkable work of 1,041 pages, containing much valuable information concerning rubber, cotton, fibres, and many other agricultural products, and has been compiled by Mr. A. Staines Mander, organiser of the exhibition.

During the exhibition an international congress is being held, delegates attending from all parts of the world, and many papers are to be read. A great many official and social functions are also taking place during the eleven days the exhibition remains open. Practically every country where rubber is grown is represented, so that it is unnecessary to specify each. The section occupied by the Belgian Government and the Belgian Congo first claims the attention of the visitor, as it occupies most of the entrance hall and the whole of the Gilbey Hall. The court comprises six distinct sections, each one having a particular object in view, the whole forming a progressive study in the history and uses of rubber. In the Main Hall the various Brazilian States have a combined exhibit showing the different types of Para rubber, including 15 tons from the State of Amazonas and 10 tons from the State of Matto Grosso. At the Sao Paulo stand samples are shown of the different kinds of coffee, the trade in which represents an average value of about fifteen millions sterling to that State. The Malaya section is one of the most important in the exhibition, over ninety companies contributing to the display of plantation rubber in its most approved forms. The whole court has been arranged to give visitors a general idea of the past and present history of the rubber industry in British Malaya. Beginning with the indigenous rubbers, it passes on to the introduction of Brazilian rubber into Malaya, illustrated by the portraits of the four men who had so much to do with that important event—viz., the late Marquess of Salisbury (who, when Secretary of State for India, conceived the idea of introducing Para rubber into India, and sent Mr. H. A. Wickham to Brazil to procure the seed in 1876), the late Sir Joseph Hooker, the late Sir Hugh Low, and Mr. H. A. Wickham. An interesting collection of early experimental samples of rubber comes next, and then many photographs, specimens, and diagrams explanatory of the present culture and manufacture of the rubber, its export and handling in England, and its subsequent application to a few of our everyday wants. The samples of plantation rubber are chiefly shown by the companies in the form of smoked sheet and crepe, prominence being given to a 1,900-lb. block from the Lanadron estates. The Malayan Court has a full collection of spices, essential oils, and drugs, the latter including cubeb, ipecacuanha, camphor, areca, benzoin, gambier, etc. Near by is the Ceylon Court, where all the agricultural products of the island are shown. Over fifty Ceylon companies show rubber, and there are also miscellaneous exhibits, comprising croton-seed, cinchona, papain, nux vomica, pepper, cinnamon and citronella oils, cardamoms, Kola, areca, coca-leaves, cloves, etc. Many foreign Governments for the first time have space devoted to tropical produce. In the King George's Hall cotton predominates. Among the novelties is a full-sized plantation-rubber tennis-court. Another feature is a rubber room exhibited by the North British Rubber Co., Ltd., in which practically every article in the room is made of that product. A series of cinema-shows has been organised devoted to

the plantation industry in the Malay States. There are numerous exhibits in the commercial section, including one of Messrs. William Gardner & Sons (Gloucester), Ltd., who have a special show of their patent "Rapid" sifting and mixing machines at Stand No. 42, these machines being specially adapted for rubber and other trade requirements. Other exhibitors in this section are the North British Rubber Co., Ltd., the Kali Syndicat, Danysz Virus, Ltd., Venesta, Ltd., "Lipsia" Chemical-works, Ltd. (Chas. Windschuegl & Co., agents), and many others. The exhibition closes on July 9.

International Opium Conference.

(From Our Special Correspondent.)

AT the second day's session of the Opium Conference, held at The Hague on June 16, Mr. J. T. Cremer (President) gave a further explanation of the objects of the Conference, which are now familiar, after which a considerable number of delegates personally declared that their Governments are inclined to ratify the Convention. The delegates of two nations, however, stated that their Governments have objections still, either for the whole of their territory or with regard to a single province. The Conference proceeded to discuss a proposal of the American delegates, which aims at ratifying the Convention as soon as possible and enforcing it on December 1, 1914. After a lengthy discussion the assembly decided to refer this proposal to the Drafting Committee, which was instructed to draw up a resolution which will meet with the objections elicited during the discussions.

At the opening of the third meeting, on Wednesday, June 17, the Italian delegate intimated that he had ratified the Convention in the name of his Government. The Persian delegate declared that his Government had sent him to the Conference in the hope that all the Powers concerned would ratify the Convention and co-operate to put it into action as soon as possible; in case this purpose is not achieved by the present Conference the Persian Government will not be inclined to participate in a fourth Conference. At this meeting Mr. C. Th. van Deventer, of the Drafting Committee, brought forward the report concerning the American proposal of the previous day, to enforce the Convention on December 1, 1914, which report was accepted by the Conference in the following form :

"The Conference believes—(1) That it will be possible to put into action the International Opium Convention of January 23, 1912, notwithstanding that some Powers which have been invited to sign it in compliance with Art. 23, Clause 1, have not yet done so; (2) that the Convention will be put into force by all the Powers which have signed it, as soon as these Powers and those which have made known their intention to participate will have ratified it. The date on which it will be put into force will be the date mentioned in Art. 24, Clause 1—i.e., three months after the day on which the Dutch Government will have communicated the last of such acts of ratification to the Powers."

At the meeting on Friday, June 19, the following resolution, proposed by the American and British delegates, was unanimously adopted :

"The Conference invites H.E. the Dutch Minister for Foreign Affairs to make urgent representations to the Powers which have signed, but not ratified, the Convention, in order to induce them to declare themselves ready to proceed as soon as possible with the ratification."

The Chinese proposal to hasten the date of the enforcement of the Convention, with an amendment of the British delegation, was referred to the Drafting Committee, and a further meeting will be held to decide the question.

THE DELEGATES

appointed by the different Governments to participate in the Conference are :

Belgium: Baron Alb. Fallon, Ambassador at The Hague.
Chili: Mr. Jorge Haneus, Ambassador at The Hague and at Brussels.

China: Mr. Yen Hui Ching, Ambassador at Berlin.
Dominican Republic: Mr. José Lamarche, Ambassador at The Hague.

Ecuador: Don Miguel a Seminario, Chargé d'Affaires at Brussels.

Spain: Don Fernando Osario y Elola, Ambassador at The Hague.

Guatemala: Mr. José Lardizabal, Chargé d'Affaires at Paris and at The Hague.

Haiti: Mr. Sténo Vincent, Chargé d'Affaires at The Hague.

Italy: The Count J. Sallier de la Tour, Count of Calvello, Ambassador at The Hague.

Japan: Mr. Aimaro Sato, Ambassador at The Hague.

Luxemburg: Baron A. Fallon, Belgian Ambassador at The Hague.

Montenegro: Mr. H. Mendes da Costa, Consul-General at Amsterdam.

Netherlands: Mr. J. T. Cremer, ex-Minister of the Colonies, ex-President of the Nederlandsche Handelsmaatschappij (Dutch Trading Co.), member of the First Chamber of the Dutch Parliament; first delegate, Mr. C. Th. van Deventer, member of the Second Chamber of the States-General; Mr. A. A. de Jongh, formerly head inspector and head officer for the Administration of Opium Excise-duty in the Dutch East Indies; Burgomaster of Hoorn.

Persia: Mr. Mirza Mahmoud Kahn, Secretary of the Embassy at The Hague.

Salvador: Mr. Rafael Guirola, ex-Minister of Finance.

Siam: Mr. Phya Sudham Maitri, Ambassador at London and at The Hague; Mr. W. J. Archer, Counsellor of Legation.

Switzerland: Mr. G. Carlin, Ambassador at London and at The Hague.

Uruguay: Mr. Guani, Ambassador at Brussels.

France: M. Guesde, head President in Indo-China; M. Brunier, head official of the Economic Service of the French Government in Indo-China.

Sweden: Mr. De Klerker, Envoy Extraordinary and Plenipotentiary for Belgium and the Netherlands, stationed at Brussels.

Great Britain: Mr. Max Müller, of the Foreign Office; Sir William Collins.

Venezuela: Dr. Esteban Gil Borges, First Secretary at the Embassy at Paris.

Romania: His Excellency C. M. Mitileneu, Envoy Extraordinary and Plenipotentiary of H.M. the King of Romania at the Dutch Court at The Hague.

The following have not sent delegates to the Conference: Bolivia, Bulgaria, Honduras, and Norway.

The names of all the delegates for Germany, the United States of America, the Argentine Republic, Brazil, Columbia, Cuba, Mexico, Nicaragua, Paraguay, Peru, Portugal, and Russia are not yet known. Costa Rica, Denmark, and Panama have intimated that they would participate in the Conference.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. A. HAWKES has purchased Mr. R. L. Whigham's branch business at 19 High Road, Wembley, Middlesex.

MR. JOHN C. HENDERSON, Ph.C., has removed from 36 Wilderhaugh to 48 Victoria Street, Galashiels.

It is Mr. Arthur Hall, formerly of Leytonstone, who has purchased Mr. J. L. Hawksworth's business at Daventry.

MR. MORTEN DODGE, chemist and druggist, 1 Albert Square, Manchester, has taken premises in Clarence Street, Manchester.

MR. G. WATERHOUSE, Lion Works, 116 Weston Street, Sheffield, has taken over the wholesale portion of the business of Waterhouse, Ltd.

MESSRS. LIPSCOMBE & CO., filter manufacturers, have removed from 19 Bartlett's Buildings to St. Dunstan's Buildings, St. Dunstan's Hill, London, E.C.

MR. GEORGE CROOK, Ph.C., 469 Lord Street, Southport, has closed his premises, owing to the expiration of lease, and sold the optical part of the business to Mr. F. A. Neubert, F.S.M.C., optician, 2 Scarisbrick Avenue, and transferred the prescription-books to Mr. Righton, chemist and druggist, 515 Lord Street.

PALM OIL to the value of \$461,467, and weighing 7,066,039 lb., was imported into Baltimore, Md., from England in 1913. There was 3,000,000 lb. more in 1912.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., June 25, 6.30 p.m.

BUSINESS continues in much the same condition as previously reported, trading generally being slack and likely to be so for the next two months. A rather large sale of first and second hand drugs has been held this week, which has helped matters somewhat, but the proportion sold was small. Opium remains a strong market at primary sources; makers of codeine have advanced their prices by 10d.; morphine is steady. Acetic acid remains weak. Cream of tartar is very firm, crude material being scarce. Milk-sugar is about steady. Belladonna-root and orange-peel continue scarce. Italian orris is the turn easier owing to new crop. Menthol is firmer for arrival. The changes in essential oils include a further advance in West Indian distilled lime oil and a decline in Bourbon geranium. Lemon oil remains firm at the recent advance. American peppermint oil is easier at primary sources, according to our cable. Among seeds canary and caraway are very firm, and cumin is higher. Morocco coriander is lower, anise unaltered, and fenugreek slow. In spicess cloves, cassia lignea, and pimento have moved in buyers' favour. The principal changes have been as under :

Higher	Firmer	Easier	Lower
Codeine	Lemon oil	Ammonia sulphate	Aloes (Cape)
Cumin-seed	Menthol (c.i.f.)	Cassia lignea	Coriander seed
Lime oil (W.I.)	Orange oil	Orris (Italian)	Geranium oil (Bourbon)
Sarsaparilla (Native Jamaica)	Orange-peel	Sarsaparilla (Grey) (Jamaica)	Ipocacuanha (Matto Grosso)
	Sarsaparilla (Jamaica)	Honey	
		Pimento	
		Sarsaparilla (Lima)	
		Wax, bees (E. Africa)	

Cablegrams.

BERGEN, June 24.—The Finmarken cod-fishing is now closed, and the market for finest non-freezing medicinal oil is dull at 71s. 6d. per barrel c.i.f.

NEW YORK, June 24.—Business in drugs is fair. Opium is higher at \$6.85 per lb. Peppermint oil in tins is lower at \$4.00, and menthol is easier at \$3.00. Buchu has been reduced to \$1.45 for short and to \$1.30 for long. Belladonna-root is higher at 10c. per lb., and so-called American saffron is lower at 50c. per lb.

London Markets.

ACETIC ACID is weak, and the subject of keen competition among dealers.

ANISEED is unchanged at 26s. 6d. per cwt. for Russian, and 35s. for Spanish. In the drug-auctions six bags of weak flavour sold without reserve at 23s. 6d. per cwt.

BELLADONNA-ROOT remains firm and scarce at from 65s. to 67s. 6d. per cwt. e.i.f. In the drug-auction a single bale (0.46 per cent) was limited at 70s., five more being on offer.

BERGAMOT OIL.—Prices vary from 16s. 3d. to 16s. 11d. per lb. c.i.f., the spot values being from 17s. 6d. to 18s. 6d. per lb.

A Messina report, dated June 15, states that prompt oil has receded a trifle on the month, but has stiffened during the last few days. At Reggio a public warehouse has been opened, on the warrants of which the banks make advances. This will probably contribute to strengthen the market. Prospects are favourable for new crop. Another report of June 20 indicates that some business has been done, and sellers are now more reserved.

CANARY-SEED is very firm on the spot owing to scarcity. Common Morocco has been sold at 95s. 6d. to 94s. per quarter, and Turkish is quoted 95s. to 97s. Spanish is worth 125s. to 150s. for fair to good bold.

CARAWAY-SEED is firm at 28s. 6d. to 30s. per cwt. for fair to good Dutch.

CASCARA SAGRADA.—The *Crown of Toledo* has brought 600 sacks to London. Spot is offered at 35s. 6d., and for June steamer shipment from Frisco 33s. 6d. c.i.f. is asked.

CASSIA LIGNEA is easier, selected offering at 24s. 6d. and broken at 17s. 9d. c.i.f. for July-August shipment.

CHILLIES.—Business has been done in East African and Japanese at 65s. on the spot.

CINCHONA.—At the London auction on Tuesday 429 packages East Indian was offered, of which about 200 sold at higher rates, the average unit being 1 $\frac{1}{2}$ d., against 1 $\frac{1}{4}$ d. at the last auction. Red-stem chips sold at 5 $\frac{1}{2}$ d. and broken red quill 6d. Officinalis, natural quilly chips 6 $\frac{1}{2}$ d. to 6d., broken quill 6d., spoke shavings 4 $\frac{1}{2}$ d. to 4 $\frac{1}{4}$ d., one lot 6d., root 5 $\frac{1}{2}$ d., and renewed stem chips 5 $\frac{1}{2}$ d. to 5 $\frac{1}{4}$ d.

CLOVES.—Zanzibar are quiet, with spot sellers at 5 $\frac{1}{2}$ d.; to arrive sellers of June-August shipment quote 5 $\frac{1}{2}$ d. c.i.f., and for June-August delivery sales have been made at 5d. and buyers.

COCAINE.—In a British Consular report on the trade of Peru for 1913 it is stated that the exportation of cocaine, which appeared to have acquired a certain stability, and had steadily increased from 1908-11, experienced a marked fall in 1912, presaging an unfavourable period for the industry. Since 1902 coca from the Dutch East Indies has ousted the Peruvian article from the European markets, and the price has fallen over 50 per cent., the result being that growers who used to produce about 59,000 cwt. of coca a year have now turned their attention to the cultivation of other products.

COD-LIVER OIL.—There is no alteration to report, best brands of new non-congealing Lofoten oil offering at from 72s. to 72s. 6d. per barrel c.i.f. London.

Our Bergen correspondent writes on June 22 that the cod-fishing is now practically closed in Finmarken, and the final report will probably appear in a few days. The report up to June 20 gives the following quantities for all our cod-fisheries :

	1912	1913	1914
Catch of cod (millions) ...	99.2	74.8	80.8
Yield of c.l.o. (hect.) ...	76,200	47,400	57,000
Yield of liver for raw oils (hect.) 34,000		11,500	10,900

The market is dull at the nominal quotation of 71s. 6d. per barrel c.i.f. for prime non-congealing oil.

According to cabled statistics received from Norway on June 23 the catch of cod, the quantity of livers set aside for natural oils, and the output of cod-liver oil up to June 20 is as follows :

	Catch of cod	for raw oil (hect.)	Yield of livers (hect.)
Finmarken, 1911 ...	22,869,000	2,979	14,116
do. 1913 ...	33,666,000	5,524	21,831
Whole country, 1914 ...	80,800,000	10,871	55,971
do. 1913 ...	74,800,000	11,515	47,363

The fishing in practically all the districts is now rapidly drawing to an end, and during the past few weeks very little, if any, improvement in the figures has been shown.

CODEINE.—Makers have advanced their prices by 10d. per oz., the quotation for the pure crystals in 175-oz. contract lots being 11s. 8d., 70-oz. lots on contract 11s. 11d., and small lots 12s. 4d. per oz. net.

COPPER SULPHATE.—Liverpool brands are quoted at from 20 $\frac{1}{2}$ 10s. to 20 $\frac{1}{2}$ 15s. per ton prompt and forward.

CORIANDER-SEED is lower, with a fair business at 14s. down to 13s. per cwt. for good Morocco and at 9s. for wormy. New crop is offering at 13s. per cwt. c.i.f. terms.

CREAM OF TARTAR remains very firm at 98s. for 28 per cent. and 96s. for 95-per-cent. A visit paid to the principal European centres for crude tartar reveals great scarcity, such as has not existed for the past decade. If, therefore, grape crops should prove to be poor this season, there is the possibility of cream of tartar going much higher.

CUMIN-SEED is dearer, and old crop, slightly wormy, has been sold at 31s. per cwt.

FENUGREEK-SEED sells slowly at 9s. to 9s. 3d. per cwt. for Morocco on the spot.

GERANIUM OIL.—As a result of French speculation lower offers are being made for June/September shipment, viz. 9s. 9d. c.i.f. for genuine.

GINGER.—Quotations for Jamaica are from 34s. to 38s. for common, 41s. to 50s. for medium to good, and 55s. to 57s. 6d. for bold. New Cochin is quoted 24s. to 25s., fine Calicut 30s., D 19s., C 37s. 6d., and B 65s. per cwt.

INSECT FLOWERS remain in fair demand, closed Dalmatian offering at 117s. 6d. per cwt. c.i.f.

LEMON OIL has been in fair demand on spot, and supplies are somewhat scarce, from 8s. 6d. to 8s. 9d. having been paid for good brands, and for June/July shipment from 8s. 3d. to 8s. 9d. c.i.f. is quoted.

A Messina report, dated June 15, reviewing the market during the previous four weeks, states that prices continued to decline until the beginning of the month, but the low point they reached caused a number of large producers of lemon oil to combine under the leadership of the Società Derivati di Acireale, whose shareholders are all lemon-growers, and whose object is to sustain prices of lemons. According to the contract made, they charge the above company from now until the end of October with the exclusive sale of a large quantity of prompt lemon oil, whereby offers are diminished and regulated. This "pool" has had its influence on the market, which has advanced and is firm. There is also some export demand from several quarters, and it further seems that there are some short sales to be covered, all of which contribute to the firm tendency. Prospects for the new crop remain good. No business has yet been done for future lemon oil.

A Sicilian report, dated June 20, states that since our last the market has advanced, going up with startling rapidity, and some fairly important parcels were bought by exporters at the highest prices from the Syndicate. It must be said that no one could have foreseen the extraordinary advances which have actually taken place during the last week. In fact, up to a fortnight or so ago all that was to be foreseen was that the Syndicate might have some influence on the market for spot goods, but the general opinion was that, this being an artificial movement to force up spot prices, it was only a brisk demand from consuming places which could have any real and lasting effect on prices. However, it so happened that some short commitments on the part of Sicilian exporters came to light, and the people who were thus caught readily paid the advance that was asked for, thus playing right into the hands of the producers, who wished to drive up the market. The position is at present still strong, but we think that prices can only be maintained at present levels if there is a supporting demand from abroad—in other words, if the market is left to itself and there are no important local requirements to be covered, we think prices should decline again.

In an advice from Acireale, dated June 20, it is reported that the commercial situation is the same as previously reported, the crop not having been damaged, as was pretended in some quarters. The rise in price was simply the result of a speculative movement initiated by producers about a month ago, who originally agreed among themselves to sell all the oil they controlled (about 140,000 lb.) on a common basis, but their tactics were subsequently changed when it was decided to keep off the market altogether. The remaining holders, having about 200,000 lb. of oil at their disposal, then fell into line and also declined to sell at any price, so that those who wished to buy small lots were unable to do so; hence the flutter and excitement of the market.

LIME OIL.—Business in West Indian has been done privately at 3s. 3d. per lb., an advance of 3d. per lb. since the public sale a fortnight ago. Hand pressed is quiet, and unchanged at 9s. per lb.

LINSEED continues to be in little demand, and the quotation is unaltered at 50s. to 51s. for fine quality.

MENTHOL.—The spot price of Kobayashi-Suzuki remains at 10s. 3d.; to arrive business has been done in these brands for May-June shipment at from 9s. 10 $\frac{1}{2}$ d. to 10s. 1d. c.i.f., being firmer. The *Mishima Maru* has brought 290 cases of menthol and oil. In the drug-auction three cases Suzuki were retired at 10s. 9d. To-day July-August shipment has been sold at 10s. c.i.f., and February-March at 9s. 9d. c.i.f.

MILK SUGAR.—Prices of the leading makers of finest powder are from 58s. 10s. to 59s. 10s., but there are offers in the market slightly below these figures.

MORPHINE is steady, makers' quotation for hydrochloride being 8s. 6d. per oz. net, and in second hands 8s. 4d. will buy.

OPTUM.—Cables from primary sources report the market as very strong, at from 15s. 9d. to 16s. for 11 $\frac{1}{2}$ per cent. c.i.f., and business is being done. Buyers are, however, operating cautiously, as any sustained buying would push the market up further. Spot supplies of Turkey druggists' are extremely small, the value being about 16s. 6d. for good. A steady business has been done in Persian at full prices, from 15s. to 19s., as to test.

A Smyrna correspondent writes on June 19 that our market has been again very active, sales amounting to 104 cases at last week's full figures—viz., 14s. 9d. to 16s. 3d., as to quality. The latest estimate of our crop is 8,000 cases, which fact by this time should have brought down prices fully 2s. per lb. under above quotations. Anyway, so long as sellers know that there are still large engagements to be fulfilled, they will maintain the position. The arrivals to date are 141 cases, against 95 at same date last year.

A Constantinople correspondent writes on June 20 that, owing to the rains, which have not ceased during the whole week, holders of opium have become more and more exacting, and a new advance in prices has taken place, which has occasioned a sale of 24 cases at from 217 to 235 ptrs. In some districts where opium is being collected rather higher prices are being paid. The sales were 24 cases druggists' at 217 to 235 ptrs., and four cases Malatia at 250 ptrs.

ORANGE OIL.—Somewhat firmer prices are quoted from Sicily, viz. 8s. to 8s. 3d. per lb. c.i.f. for sweet for prompt shipment.

A Messina report, dated June 15, states that business has been small and prices stationary. Prospects are favourable for the new crop. *Bitter* is in small demand, and prices are lower in primary markets.

ORANGE-PEEL.—Extreme scarcity is shown in both first and second hands, 2s. per lb. being asked for a single case of so-called Maltese.

ORRIS.—With the advent of the new crop prices of Florentine and Verona are easier in primary markets, where quantity is concerned. Quotations for ordinary Florentine sorts are from 69s. to 71s. c.i.f. for best, the spot prices being from 71s. to 72s. for ordinary to good.

OTTO OF ROSE.—A report from Philippopolis regarding the new crop of otto of rose states: "The distillation has now ceased everywhere and has been done under very favourable conditions—i.e., there was rain during the time of distilling—and the output has been excellent. The rose-trees are in a very good state, and the total production is 25 to 30 per cent. larger than last year; thus the price will be considerably lower. This has not been fixed yet, but will be settled shortly."

PEPPERMINT OIL.—American tin oil is unchanged at from 17s. 6d. to 18s. per lb., and for September shipment 11s. 6d. c.i.f. is quoted for best brands. Our New York cable indicates a lower market at \$4.00.

PIMENTO is easier, with spot sellers at 17 $\frac{1}{2}$ d., and July-August shipment at 16s. c.i.f.

QUININE.—At the auction of quinine held at Amsterdam on June 19, 1,417 $\frac{1}{2}$ kilos. Ed. II. were bought in at fl.20.75 per kilo. The next auction will be held on July 17.

The exports of "quinine, quinine salts and combinations" from Germany during the four months ended April were:

	1912	1913	1914
Kilos.	78,500	82,800	75,000

SHELLAC is steady, with a moderate business on a basis of 62s. for fair TN Orange, and AU Garnet at 64s. to 65s., according to condition; to arrive June-July

shipment of TX Orange is quoted 62s. c.i.f. Futures have been steady, the sales including August at 61s. 6d. to 61s. and December at 64s.

Soy.—Business has been done in the Seuloong brand at 1s. 6d. duty paid.

TURPENTINE closed at 33s. 7½d. for American on the spot.

London Drug-auctions.

Commercial Salerooms,

Mincing Lane, June 27, 1914.

At the auctions of first and second hand drugs only a small proportion of the offerings sold. Cape aloe, on plentiful supplies, were neglected, a reduction of about 1s. 6d. being accepted where business done; Zanzibar sold cheaply without reserve. Buchu is firmly held, but no public business was done. Siam benzoin is plentiful, with asking rates maintained, but no demand in sale. Cardamoms met with a fair demand at fully steady rates. Dragon's-blood quiet, but firmly held; gamboge is steady. Large supplies of honey sold freely at irregular but generally easier prices, and practically all the Jamaica was disposed of; some fine New Zealand brought satisfactory rates. Matto Grosso is 3d. cheaper, with fair arrivals. Cartagena is neglected. Myrrh quiet and easy. Rhubarb slow, and Jamaica sarsaparilla the turn firmer for grey, but native Jamaica was dearer. New crop Timmerville senna was too highly limited in most instances. East African beeswax was in good demand at about steady prices. The following table shows the quantity of goods offered and sold:

	Offered Sold		Offered Sold
Albumen	5 ... 0	Ipecaeninha—	
Aloes—		Cartagena	12 ... 0
Cape	123 ... 14	Matto Grosso	22 ... 7
Curaçao (cs)	18 ... 0	Jalap	6 ... 0
Socotrine	19 ... 0	Kamala	8 ... 4
Zanzibar	6 ... 3	Kola	4 ... 0
Ammoniacum	5 ... 0	Lime-juice	12 ... 0
Anise (Russ.)	6 ... 6	Mastich	1 ... 0
Annatto-seed	54 ... 0	Menthol	3 ... 0
Asafetida	138 ... 0	Myrrh	96 ... 7
Balsam Peru	3 ... 0	Olibanum	40 ... 15
Balsam tolu	11 ... 0	Orange-peel	5 ... 1
Belladonna-root	1 ... 0	Orris (Mog.)	4 ... *4
Benzoin—		Papain	8 ... 0
Palembang	144 ... 0	Peanuts	45 ... 0
Siam	65 ... 0	Puree	5 ... 0
Sumatra	155 ... 10	Quince-seed	6 ... 0
Buchu	28 ... 0	Khapontica	10 ... 0
Calumba	150 ... 20	Rhubarb—	
Canary-seed	54 ... 0	China	32 ... 2
Cannabis indica	8 ... 0	Ch. Rhap.	10... 00
Cantharides	3 ... 0	Sarsaparilla—	
Cardamoms & seed	263 ... 129	Grey Jam	11 ... 11
Cashew-nuts	14 ... 0	Lima-Jam	9 ... 3
Cassia fistula	9 ... 0	Native Jam	30 ... 30
Chaulmoogra oil	2 ... 0	Scablac	11 ... 0
Chiretta	5 ... 0	Seedlac	50 ... 0
Cinnamon-bark oil	3 ... 0	Senna and pods—	
Coca-leaves	40 ... 10	Alex	55 ... 0
Coloecynth	7 ... 2	Tinnevelly	118 ... 34
Copaiba	4 ... 0	Sima cuba	14 ... 0
Cubeba	23 ... 0	Squill	5 ... 0
Cuttlefish-bone	48 ... 0	Strophanthus	33 ... 0
Elemi	20 ... 0	Tamarinds (W.I.)	61 ... 0
Ergot	22 ... 0	Tonka-beans	9 ... 0
Galbanum	1 ... 0	Tragacanth	21 ... 8
Gamboge	24 ... *1	Turmeric	60 ... 0
Guaiacum	27 ... 0	Wax (bees)—	
Gum acacia	53 ... 0	China	9 ... 0
Honey—		East African	264 ... 234
Hayti	160 ... 88	East Indian	10 ... 0
Jamaica	401 ... 380	Jamaica	19 ... 7
Nassau	12 ... 0	Morocco	20 ... 0
New Zealand (cs)	176 ... 8	Ylang-ylang oil (bot)	1 ... 0
		edoary-root	7 ... 0

* Sold privately.

ALOES.—Cape was in large supply and neglected, business being done at a reduction of about 1s. 6d. per cwt. Five cases good hard bright firsts sold at 35s. subject, and four cases common dull at 29s., subject to owners' approval. Six cases of Zanzibar sold without reserve at from 40s. to 45s. for common dark mixed to fair hard quality, with an excess of thick papery skins. Privately, livery Curaçao is scarce, unsorted new crop offering at 42s. 6d. c.i.f., with higher prices predicted. Middling to dark livery is quoted at from 42s. 6d. to 45s.

The exports from the Union of South Africa during April amounted to 125,766 lb., valued at 1,436/-, against 36,334 lb., valued at 411/-, during April 1913. For the four months ended April 30 the exports were 371,467 lb., valued at 4,235/-, against 151,765 lb., valued at 1,720/-, in 1913.

AMMONIACUM.—Five bags of small to bold yellowish clean tear were limited at 72s. 6d.

ANNATTO-SEED.—For five bags fair Madras 4½d. per lb. was wanted.

BALSAM TOLU.—Eight cases of slightly softish and drossy of fair flavour were retired at 2s. 2d., the value being 2s. Privately, holders of good ask 2s.

BENZOIN.—Twelve cases Siam sold at 5s. per cwt. for dull brown blocky siftings. Several lots of small to bold free genuine Siam almonds of good flavour were held at 29/- to 33/-, pea and bean size ditto at 18/- 10s., blocky grains 14/- 10s. to 12/-, dust in hard block 6/-, and garblings 7/- 5s. No Sumatra of good quality offered; 13 cases of fair seconds sold at from 6/- 15s. to 6/- 17s. 6d., middling seconds at 6/- 10s., and good thirds at 5/- 15s.

BUCHU.—No demand in auction. For fair to good clean green round the limits were from 5s. 3d. to 5s. 7d., and for ordinary round stalky 4s. 9d. to 5s. was wanted. Fair greenish longs were held at 4s. 9d., and ovals at from 2s. 2d. to 2s. 7d. for ordinary stalky to good green clean.

The exports from the Union of South Africa during April amounted to 25,671 lb., valued at 4,186/-, against 17,493 lb., valued at 2,853/-, in April 1913. For the four months ended April 30, 1914, the exports were 100,013 lb., valued at 18,747/-, against 90,283 lb., valued at 19,383/-, for the corresponding period of 1913.

CALUMBA.—Twenty bags sold without reserve at 10s. per cwt. for washed part wormy pickings. The *Macedonia*, from Bombay, has brought 173 bags.

CARDAMOMS on the whole sold at steady prices, comprising Ceylon-Mysore, extra bold fine pale, poorly clipped, 6s. 4d.; good bold palish to pale, 5s. to 5s. 4d.; medium to bold ditto, 4s. 6d. to 4s. 11d.; small to medium, 3s. 9d. to 4s. 3d.; ordinary to good brown split and pickings, 2s. 11d. to 3s. 2d. **Splits**—Bold pale, 4s. 8d.; small to medium, 5s. 10d.; **seed** Good, 4s. 2d. to 4s. 3d., and split ditto 3s. 6d. Indian, from Tuticorin, extra bold good long, 5s. 8d. to 5s. 10d.; bold long ditto, 5s. 3d. to 5s. 4d.; specky ditto, 5s. 1d.; small to medium pale, 4s. 4d. to 4s. 10d.; tiny, 4s. Bold splits, 4s. 10d.; bold medium, 4s. 5d.; small, 3s. 6d.; extra bold round (Mangalore character), 5s. 8d.; medium ditto, 5s. 3d.; medium to bold, part reddish, 4s. 7d. to 4s. 9d.; small, 4s. 3d. Aleppy, good medium brown, 3s. 9d. to 3s. 11d.; small brown, 3s. 3d. to 3s. 4d.; small green ditto, 3s. to 3s. 1d. per lb.

The exports from Ceylon from January 1 to June 1 were 189,430 lb., against 211,781 lb. in 1913, 197,246 lb. in 1912, and 324,544 lb. in 1911. The U.K. receipts were 94,225 lb., against 84,912 lb., while those for Germany fell from 44,909 lb. to 32,011 lb.; the U.S.A. imports also fell from 36,637 lb. to 34,862 lb., and the Indian imports were 5,408 lb., against 15,201 lb. in the same period of 1913.

COCA-LEAVES.—Five cases fair greenish Ceylon-Huamaco leaves sold without reserve at 6½d. per lb.; five cases Ceylon-Truxillo had been sold privately.

COLOCYNTH.—Two cases of small to bold palish apple, partly broken, sold without reserve at 4d. per lb.

DRAGON'S-BLOOD.—Quiet. A single case of good re-boiled lump offered and was held at 20/-; fair pickings from the re-boiled were limited at 9/-; for good colour lump 13/- was wanted, and ordinary dull bag-shaped lump 7/- per cwt. Four cases ordinary damp broken slab were held at 5/- The *Troilus* from Penang has brought 18 cases.

GALBANUM.—A single case of fair woody and blocky drop was bought in at 1s. 10d.

HONEY.—A large quantity of Jamaica offered and sold, importers meeting the market, prices being irregular but generally easier, the following rates being paid: Good to fine hard pale set, 28s. to 31s. 6d.; fair ditto, 26s. to 27s. 6d.; middling brownish set, 23s. to 25s. 6d.; and dark brown set, 19s. to 21s. **Liquid**, good to fine pale amber, 26s. 6d. to 29s. 6d.; fair ditto, 25s. to 26s.;

middling reddish liquid, 22s. to 24s. 6d.; common dark brown liquid, 19s. to 21s. Of Hayti, 160 cases offered, and 97 sold at from 18s. to 20s. for set sugary palish, and 18s. 6d. for fair liquid amber. Of New Zealand, 85 cases of good white set sold at from 44s. to 45s., mostly at the higher price.

IPÉCAUANHA was about 3d. per lb. cheaper for Matto Grosso, as compared with the prices paid privately, seven bales selling at 7s. 9d., for mostly ordinary dull lean, and for a single bale of slightly damaged 7s. 3d. was paid. Cartagena was held at from 7s. to 7s. 6d. The *Duendes* from Monte Video has brought 46 bales and 2 cases to London, and the *Ortego* 30 bales from Monte Video to Liverpool.

KAMALA.—A single case of ordinary brickly sold without reserve at 5d. per lb.; the price for protected lots is 9d. Towards the close 3 bags sold at 10d. subject for fair.

MYRRH.—Six cases of bold pea-size of weak flavour said to be mixed with bdellium sold without reserve at 46s. to 47s., and for a bale of dusty siftings 40s. was paid.

OLIBANUM.—Fifteen cases of fair small drop sold at 32s. 6d. subject, and for good garblings a bid of 16s. is to be made; ton-cases siftings were held at 20s.

RHUBARE.—Very quiet. Two cases of medium flat High-dried, with three-quarters palish pinky fracture and one-quarter dark, sold at 10d. per lb. For medium size, round Shensi, with three-quarters good pinky fracture, 4s. 6d. was wanted, and 3s. 6d. for small round and trimming Canton root.

SARSAPARILLA.—Grey Jamaica was slightly firmer, ten bales selling at 1s. 9d. for fair, and 1s. 6d. for rough part chumpy and mixed with Lima. Native-Jamaica was in demand, 30 bales dull to fair red selling at from 1s. to 1s. 1d.; but towards the close of the sale common dull yellow mixed sold at 1s. 1d. to 1s. 2d., being dearer. Three bales of fair Lima-Jamaica sold cheaply at 1s. 4d. per lb.

SENNA.—Part of the offerings of Tinnevelly were said to be new crop, but were held above buyers' ideas. A few bales of boldish green leaf sold at 4d. subject, and inferior yellow at 1d. Pods sold at from 1d. to 2d. for damaged to fair. Two bales of Alexandrian pods sold at 1s. The *Author*, from Port Sudan, has brought 125 cases to Liverpool.

WAX. BEES'.—East African, which formed the bulk of the supplies, met with a good demand at slightly easier rates, about 250 packages selling, including fair to good block at from 7s. 15s. to 7s. 17s. 6d.; slight drossy, 7s. 10s. to 7s. 12s. 6d.; fair pipe, 7s. 10s.; ordinary drossy block mixed, 7s. to 7s. 5s.; crumbly broken ball, 7s.; heated ditto, 6s. 17s. 6d.; and inferior block, 6s. 12s. 6d.; of Jamaica, 7 packages sold at from 8s. 15s. to 8s. 17s. 6d. per cwt. for fair to good red and brown mixed, being steady. Fair bleached Calcutta was held at 8s. 12s. 6d. per cwt., and Morocco at from 7s. 10s. to 7s. 17s. 6d., as to quality.

Manchester Chemical Market.

June 23.

The market has been flat, and business is of comparatively small dimensions. In alkalies and heavy chemicals, bleaching-powder seems to be in better inquiry at from 5s. 7s. 6d. to 5s. 15s. per ton, prompt, on rails, in softwood casks, and contract account. 5s. 2s. 6d. to 5s. 7s. 6d. There is no change in caustic soda, soda-crystals, etc. Salt-cake has perhaps been in a shade better demand. Phosphate of soda is quiet at 9s. 10s. per ton. Ammonia alkali is 2s. 17s. 6d. to 3s. 10s. per ton, in bags, f.o.b.; borax, 17s. 10s. per ton, lump. Potashes inactive: sulphate in quiet request at 10s. per ton. Muriate of ammonia is slow at 2s. to 2s. 6d. per ton. Carbonate of ammonia is quiet at 3s. 6d. per lb. Glycerin quotations are: Crude, dynamite, and chemically pure, 65s., 85s., and 95s. per ton respectively, with firm feeling. Sulphate of copper on the easy side at 20s. 12s. 6d. to 20s. 15s. per ton, delivered Manchester. Chloride of calcium in better demand, owing to weather conditions, at from 2s. 7s. 6d. to 2s. 12s. 6d. per ton, in drums, on rails at works. Sulphur is rather quiet at 8s. 15s. per ton for flowers. 8s. per ton roll, in 3-cwt. barrels, and rock, 6s. 5s. per ton, in 3-cwt. bags, on rails. White powdered arsenic

is 14s. to 14s. 10s. per ton, delivered Manchester. Coal-tar products continue extremely quiet, although sulphate of ammonia appears to be in rather better request.

Heavy Chemicals.

The heavy-chemical market maintains a steady tone, and, if anything, there is a heavier all-round demand, and especially so against existing contracts. The conditions at all centres are practically the same, except on the Tyne, where the annual race holidays occur this week and works close down. Values are well maintained at late rates.

SULPHATE OF AMMONIA is perhaps a shade steadier, but there is no improvement in values. There is a very poor demand for prompt, and little is being done in forward, as sellers are not eager to close on present low basis. Present nearest figures: London terms, 25-per-cent., 9s. 17s. 6d.; Leith, 10s. 12s. 6d.; Liverpool, 10s. 10s.; and Hull, 10s. 7s. 6d.

LEAD-PRODUCTS keep a very steady market. White-lead, 26s.; red-lead, 22s.; and pig-lead, 20s. 10s. per ton, Tyne.

BENZOLS are on the dull side, with orders few. Present naked figures: 90-per-cent., 11s., and 50-per-cent., 10s.; North, 10s. to 10s. 6d. and 10s. respectively.

BICHROMATES OF POTASH AND SODA in fair request at late rates, which are for English and Scotch deliveries 3s. 6d. and 3s. per lb. respectively, usual terms; export, 4d. per lb. less.

ALUMINA-PRODUCTS.—The general conditions here remain much the same as recently reported. There is a good average demand, with values maintained. Crystal alum, lump, 5s. 17s. 6d. to 6s. 12s. 6d., and ground, 6s. 12s. 6d. to 7s. 6d. per ton, on rails, Lancashire or Yorkshire, or f.o.b. Hull, Goole, or Liverpool. Sulphate of alumina, purest qualities, practically free of iron, 4s. 15s. to 5s. 5s. per ton for ordinary strength, in casks, and usual allowances for loose slabs and customary extras for higher concentrations. Alumino-ferric, 52s. 6d. to 60s., and aluminous cake, 52s. 6d. to 60s. per ton, according to quality, quantity, and destination. Hydrate of alumina, purest quality and high strength Al_2O_3 , 12s. 10s. to 13s. 10s. per ton, in casks, free on rails. Dried pulp hydrate of alumina, about 50 per cent. Al_2O_3 , 35s. to 36s., and ground, 37s. 10s. to 38s. 10s. per ton. Aluminate of soda, purest quality and high strength Al_2O_3 , 27s. 6d. to 30s. per cwt. Carbonate of alumina, 30s. to 32s. 6d. per cwt.

Continental Drug and Chemical Markets.

ARAROBA is extremely scarce. According to reports, the low prices do not leave any profit to gatherers. From second-hands some good sales have been made, and the prices rose by about m.1.80 to m.2 per kilo. Good test can no longer be obtained under m.5.50 per kilo.

CANTHARIDES.—Russian remain very scarce. For spot (Hamburg) m.16 has already been paid, and afloat m.15.50 per 100 kilos. There is no news yet with regard to new crop, but, in view of the unfavourable weather, a very small Russian crop is expected.

ERGOT.—Some sales took place in Hamburg at somewhat cheaper prices. Spot was dealt in at m.360 and to arrive at m.355 per 100 kilos. Offers on the whole are few; Spain, in view of the expected very small crop, has raised prices for old by m.50, and offers at m.525 per 100 kilos.

GUARANA.—Owing to the high prices, a considerable collection took place, so that large quantities have accumulated. The high prices have consequently not been maintained; spot (Hamburg) can be bought at m.14, and to arrive at m.13 per kilo. As, however, speculators are interested at the cheap prices, it seems that a further decrease is unlikely.

IPÉCAUANHA—Cartagena is slightly easier at m.13.75 to m.13.50 per kilo.; and Rio is rather firmer at m.18.50 per kilo., in consequence of few offers.

LYCOPERIUM.—From Russia higher prices are asked, owing to small stocks. The German market, on the other hand, is well and comparatively cheaply supplied, so that, although prices have risen slightly, an important advance is out of the question at present, especially as consumption has receded, the foundries mostly preferring the much cheaper substitute.

MASTICUL.—Spot (Hamburg) is scarce. Best tears are offered at m.630 per 100 kilos., and to arrive m.570 is quoted, inferior qualities offering at from m.490 to m.515.

QUILLAJA has been somewhat firmer, in sympathy with Chile. For whole the parity of about m.30 per 100 kilos. is asked in Chile. The stocks of whole in the various European markets are not considerable, nor are any important supplies announced. Based on the higher reports from Chile, some large purchases took place by consumers for "cut," and up to m.30 per 100 kilos. was paid.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Bath.—At a meeting of the Insurance Committee on June 18, the Chairman stated that he knew of no warranty for the statement of Councillor Jenkin (chemist) that panel chemists are likely to receive only 1s. 2d. in the pound for the goods they have supplied to insured persons.

Blackburn.—A special meeting of the North-East Lancashire Chemists' Association was held at the Victoria Hotel, Cort Street, Blackburn, on June 18, to consider several matters concerning Insurance work. The President (Mr. C. A. Critchley) was in the chair. In regard to the payment of accounts for 1913, the President said he understood that now the money allotted to Blackburn had been all paid out, and there is a deficit of 1,000/- in the amount required to pay the chemists in full. Mr. Gifford then reviewed the eighteen months' experience of the working of the Insurance Act, and said chemists have come out of it very well on the whole. He believed it is quite impossible to go back to the old order of things; indeed, he thought it inevitable that the system will be extended to all dispensing work before many years have passed. A good deal depends on the pharmacists themselves. The dispensing has been well done up to now, and there is every reason to believe that pharmacists will be more and more appreciated. Referring to the Tariff, Mr. Gifford said it is desirable to have uniformity as far as possible, but there is no necessity to cheesepare in order to meet the defects of the Drug Fund. Taking the country through, there are ample funds to meet all requirements, and means must be devised for meeting exceptional cases. The Prudential Assurance Co. have had no difficulty in meeting local claims, because their funds are national. Their only care in a case like Blackburn, which absorbed more than the average money, is to see there is no wastage or abuse. The first consideration is not economy, but efficient prescribing. Mr. Gifford then referred to payments for 1913, and said that since the year was completed every effort had been made to force the question of fuller payments being promptly made. The efforts of the Pharmaceutical Committee have been backed up by the Insurance Committee to the fullest extent. In the meantime he deprecated, as being injurious, the discussion of chemists' payments in the public Press. The remuneration could not be regulated by any system of percentage of profit. It is professional work, and their work is to do it well and to give the fullest service. Public opinion demands the best in these matters, and he believed the public would pay well for it.

Bradford.—Mr. R. T. Silson presided at a meeting of the Bradford Pharmacists' Association on June 18, when Insurance dispensing matters alone were discussed. It was reported that the Bradford Insurance Committee could not pay accounts for the quarter ended January 11, because the final grants had not been received from the Commissioners. The Committee also declined to make a grant for administrative expenses of the Pharmaceutical Committee. The Secretary (Mr. Robinson) had, at Mr. Woolcock's suggestion, written to the Commissioners, but had received no reply. After a reference by Mr. Penty to doctors refusing to have anything to do with checking prescriptions, the following were nominated for election on the new Pharmaceutical Committee: Messrs. Appleyard, Faull, Firth, Penty, W. Sutcliffe, Burdett, Bainton, Atkinson, Calvert, Silson, H. J. Day, Wilson (of Laisterdyke), Holroyd, G. B. Parker, D. S. Priestley, A. R. Bailes, and Foster Smith. Messrs. R. T. Silson and C. Robinson were appointed delegates to the Local Associations Conference on July 15. The meeting then discussed Drug Tariff questions, the Chairman, Secretary, Mr. Penty, Mr. Calvert, Mr. Wilson, Mr. Bailes, Mr. Carson, Mr. Faull, Mr. Parker, Mr. Smithies, and Mr. Pyecroft being the principal speakers. There was a very general discussion, and the following definite desolutions were arrived at:

The prices of all elixirs should be raised.

A minimum dispensing-fee of 1d. for ointments and powders on the Tariff is suggested.

A motion to take the dispensing-fee off cod-liver-oil emulsion was defeated by a large majority.

The maximum fee on pills, capsules, and tablets bought ready made and not on the Tariff should be 6d.

A motion that the price of cod-liver-oil emulsion should be

1s. 8d. per pint and of petroleum emulsion 1s. 4d. per pint, plus dispensing-fee was defeated by a majority of one.

The delegates were instructed to make a strong protest against the discounting clause in the agreement.

In the course of the proceedings the members fully recognised the problem of the situation, viz., that so far the Insurance Committee have discounted chemists' accounts by 33½ per cent.; what will happen if Tariff rates are increased? The Chairman mentioned that if discounting continues in the district the Committee may have to work with fewer chemists, or some districts may be left without chemists at all. He also mentioned that some chemists get a great number of prescriptions for malt and oil and cod-liver-oil emulsion, the effect of which, with 2d. dispensing-fee in each case, is to press hard upon those who do not get so many of these. Similarly, said Mr. Bailes, those who get big dispensing-fees for P., D., & Co.'s tablets also contribute to the discounting; and the Secretary remarked that they should have different dispensing-fees for extemporaneous dispensing and non-extemporaneous dispensing. Other instances of need for readjustment were given and discussed. The Chairman asked whether anybody thought that they should have ½d. per 3 oz. for chloroform-water, or whether it would not be better to fix it at 2d. per 4 oz., as was done in the West Riding. The increase of the last quarter, he thought, had been largely due to the increase on the waters. He returned twice to the cod-liver-oil emulsion matter before the Committee came to a resolution about it. It seemed to be agreed that market fluctuations should be ignored, unless in exceptional cases. The refusal of doctors to pay a share of the charge of prescription-checking was also discussed, the Chairman pointing out that if they got doctors interested in this, they (the doctors) would see how much medicine is being taken, and thus help to stop waste. Why, asked the Chairman, should the burden be put upon the chemists of finding out, if necessary, which doctors had prescribed in too expensive a method or repeated medicines too frequently? The Secretary said the cost of checking is only about one-tenth of a penny per insured person, and he doubted whether it is worth while to ask that the chemists should be entirely relieved of their contribution towards the cost of checking. No resolution was come to in the matter.—Mr. John Smith Craven, chemist and druggist, of Cleckheaton, has been added to the chemists' panel. The Clerk reported to the Insurance Committee on June 24 that the provisional final accounts for 1914 show a balance of 309l. 16s. 7d. available towards chemists' accounts, this being the final payment. The payments to chemists amount to 85,177s. per cent. Ten panel doctors dispensed medicines, and have been paid 1s. 11.8d. per insured person, which is more than 85,177s. per cent., so the difference is to be deducted from their payments.

Derby.—At a meeting of the borough Insurance Committee on June 17, the Chairman, in his first annual report, said that of the 44,341 insured persons in the district, 70 per cent. were men and 30 per cent. women. Twenty-nine chemists are on the panel, representing thirty-five shops; and the number of prescriptions dispensed was 122,115, at an average cost of 6.87d. The Chairman thanked doctors and chemists for their co-operation.

Dewsbury.—At a meeting of the Insurance Committee on June 12, the Clerk reported that Dr. Hammerton claimed the right to dispense medicines for several persons resident in Earlsheaton and Dewsbury Moor, and his list of patients was referred to the Pharmaceutical Committee.

Dorset.—The County Insurance Committee on June 13 received the report of the Medical Benefit Sub-Committee, in the course of which it was stated that the number of prescriptions dispensed was 30,669, at a cost of 989l. 12s. 10d., the average per prescription being 7.74d., and 90 per cent. of the chemists' accounts had been paid. It was also reported that the local Medical Committee had condemned the supply of patent and proprietary medicines and of vaccines and sera to insured persons. It was recommended that the Insurance Committee agree with the opinion of the local Medical Committee, and that the Commissioners be asked whether additional funds cannot be allocated to meet the cost of vaccines and sera prescribed by panel practitioners. With respect to dispensing, it was stated that there is now in each area an arrangement among the chemists whereby insured persons may at all reasonable times obtain drugs and appliances. The Committee have agreed to an altered schedule of prices based on the revised Tariff for drugs, etc., issued by the Committee, and printed lists of the revised prices will be issued to medical practitioners and chemists. The number of insured persons on the Committee's register as entitled to Medical and Sanatorium Benefit on April 12 was 69,172. The Sanatorium Benefit Sub-Committee reported that, acting on the county tuberculosis officer's advice, dental treatment had been sane-

tioned in fourteen cases.—The County Pharmacists' Association has nominated the following as the new Pharmaceutical Committee: Messrs. R. H. Groves (Blandford), H. Ayre (Poole), W. S. N. Merrick (Dorchester), T. G. Aitken (Parkstone), F. Hancock (Weymouth), and J. A. Haynes (Parkstone), with one of Boots' managers to represent company pharmacy, and a chemist to represent the north and north-west part of the county.

Exeter.—Panel chemists met on June 22, Mr. E. Lemmon presiding, when nominations were made for the Pharmaceutical Committee and it was resolved:

That this meeting of Exeter panel chemists strongly protest against the payment of only 75 per cent. of the accounts rendered in April last, especially as the Insurance Commissioners have advised payment of 90 per cent., and asks that payment of the balance be made forthwith.

Gloucester.—The Insurance Committee have written to the Commissioners about the delay in final settling of chemists' accounts for 1913-14, asking an immediate settlement.

Halifax.—Mr. H. K. Woodward presided at a meeting of the Halifax Chemists' Association on June 17, when there was a discussion on the deficiency in the Drug Fund, and it was resolved:

That a deputation should be formed and representation made to the Chancellor of the Exchequer and the Insurance Commissioners to the effect that the present available Drug Fund is insufficient, especially in industrial areas, and that more should be provided to ensure prompt and full payment.

Mr. P. W. Swire was elected delegate to the Local Associations Conference on July 15, and was instructed to support the resolution there. The local Pharmaceutical Committee was nominated—viz., Messrs. H. K. Woodward, J. W. Tiffany, P. W. Swire, J. Patchett, G. Dixon, W. R. Fielding, E. N. Foster, and A. Taylor; and Mr. Tiffany was re-elected representative on the Medical Benefit Sub-Committee of the Insurance Committee.

Huddersfield.—At a meeting of the borough Insurance Committee on June 17, the Clerk reported that, while the insured population had increased by 6.5 per cent. this year, the average cost per head of drugs had increased 50 per cent. over the corresponding quarter of last year. Dr. Tansley said this is due to the fact that panel doctors now prescribe the same drugs for insured persons as they do for private patients. The Clerk is getting information on the subject from other towns. Meantime the chemists are getting 55 per cent. of the first quarter's bills.—At the meeting of the Huddersfield Chemists' Association on June 23, Mr. Spurr (President) in the chair, it was resolved that the Association should join the West Riding Association and contribute on the terms set forth in a communication from Mr. Broadhead on the subject. It was decided to ask the Pharmaceutical Society to renominate Mr. R. C. Walshaw as a member of the Huddersfield Insurance Committee. Mr. Walshaw reported that everything humanly possible is being done to remedy the deficiency in the Drug Fund. It was resolved to instruct the Association's delegate to state at the next meeting of the Huddersfield Chamber of Trade that this Association would prefer to be affiliated with that body rather than to become a section of it. Mr. Walshaw promised, if possible, to attend as a delegate to the Local Associations Conference in London in July. It was resolved to apply to the Insurance Committee for 25*l.* to cover the expenses of the Pharmaceutical Committee for the year 1914.

Leeds.—In view of the difficulty and delay experienced by officials in deciphering the signatures of doctors upon Insurance documents, a member of the local Insurance Committee has suggested that medical men should be provided with rubber stamps for use, instead of writing their signatures, and the Medical Benefit Sub-Committee is to report on the suggestion.

Liverpool.—The Pharmaceutical Committee met on June 19, when Messrs. J. Bain and W. H. Clubb were appointed to a Joint Committee of the Panel, Pharmaceutical, and Medical Benefit Committees to consider the whole question of checking prescriptions for the Liverpool area, and to discuss the proposed arrangement for sharing the cost between the first two Committees and the Insurance Committee. Messrs. J. Bain, A. S. Barr, W. H. Clubb, D. H. Evans, J. L. Hirst, M. S. Hughes, C. E. Jones, R. E. Lloyd, H. H. Marsden, L. M. Parry, E. Prebble, and G. R. Tharratt were nominated for election to the new Pharmaceutical Committee.

London.—The Insurance Committee met on June 25, when payments were passed to chemists of 384*l.* from the 1913 Drug Fund, and 10,279*l.* 15*s.* 6*d.* from that of 1914. The advance of 500*l.* made to the Pharmaceutical Committee on account of administrative expenses was confirmed. The Medical Benefit Sub-Committee submitted the follow-

ing particulars of the numbers of persons under agreement with the Committee to provide treatment or to supply drugs and appliances:

	January 31, 1914.	June 13, 1914.
Medical Practitioners (total) ...	1,486	1,545
Persons supplying drugs and appliances:		
Chemists—General ...	763	783
In institutions ...	30	33
Other persons ...	24	24
	817	840

With reference to the distribution of the Panel Fund for the year 1913, the Sub-Committee, to whom the matter was referred (*C. & D.*, April 4, p. 54, and April 25, p. 136), suggested two methods of dealing with the matter, but after a long discussion both were rejected, and it was agreed that, in view of the fact that the Committee had on a previous occasion decided that no doctor should have on his list more than 2,000 insured persons, they were not prepared to distribute this large sum of money until legal or Parliamentary authority is obtained. The sum credited to practitioners for 1913 was 369,672*l.*, and for domiciliary treatment, 28,436*l.* The Commissioners stated that the total sum available for the remuneration of doctors in respect of treatment during the past year was approximately 490,000*l.* Since the last meeting of the Insurance Committee the Commissioners had been asked by the Sub-Committee whether, in view of the provisions of Article 40 (3), the Committee can exercise a discretion in the matter and vary the methods of calculating the remuneration to be paid to doctors. The Commissioners, in the course of their reply, stated that they are advised that, when the credits to each doctor have been ascertained, Article 40 (3) operates necessarily and automatically to secure a proportionate distribution of the available funds. In the present case, therefore, as it is understood that no general distribution or assignment of insured persons has been effected, and that the credits have been definitely determined as in respect of accepted persons only, the amount of those credits must apparently be taken as the basis of the proportionate distribution. As no allocation of insured persons took place, which would have had the effect of modifying the numbers on the doctors' lists and of varying the relations between those lists, the regulations require the distribution to be carried out in strict accordance with Article 40 (3) as applied to the credits already determined. With reference to the legality of payments made to practitioners in respect of those insured persons who have not been accepted by any doctor, the Commissioners stated that they are advised that, on a proper interpretation of the Medical Benefit Regulations and the agreements entered into with practitioners, the practitioners on the panel are collectively entitled to the whole sum available for the medical treatment of persons in the area who do not receive their Medical Benefit through institutions or under special arrangements sanctioned by the Committee. The Medical Service Sub-Committee reported that fifteen complaints against panel practitioners had been dealt with. There were no complaints against panel chemists.

Newcastle-on-Tyne.—At a meeting of the Insurance Committee on June 16, it was decided to draw the attention of the Panel Committee to prescriptions costing more than 1*s.* 6*d.* In the first quarter of 1914 76,742 prescriptions were issued, of the total value of 2,830*l.* the average price per prescription working out at 8.85*d.* Taking those figures as a basis, there would be a deficiency on the Drug Fund of 766*l.* for the quarter. The Chairman pointed out that the cost of prescriptions is increasing, and, in reply to a member, stated that they guarded against substitution of inferior drugs by chemists by having samples taken and occasional prescriptions analysed. It was also resolved, on the advice of the Commissioners, that the advances to be made to chemists should not exceed 90 per cent. of the amount estimated to be available for the period.

Scarborough.—At a meeting of the local Pharmacists' Association on June 18, Mr. G. H. Meadley presiding, Messrs. G. Whitfield and C. C. Laverack (Malton) were appointed delegates to the Local Associations Conference on July 15, and several gentlemen were nominated as candidates for election to the North Riding Pharmaceutical Committee.

Sheffield.—The Pharmaceutical Committee met on June 17, Mr. J. Gilbert Jackson presiding, when, on the invitation of the Committee, Mr. B. Lancaster, the Insurance Committee's pharmacist, attended, and prices were fixed for the new panel Formulary; a list of these was ordered to be circulated to the panel chemists, in order that uniformity may be arrived at. The prices include the following: 8-oz. mixtures, 1*d.* to 6*d.*, and in one case 3*d.* per 1*½* oz.; ointments, 1*½**d.* to 4*d.* for 1 oz.; injections, ½*d.*

for 8 oz.; liniments and lotions, from $\frac{1}{2}d.$ for 8 oz. to 2d. per fl. oz.; vapores, from 5d. per oz. to 2s. 5d. per 4 oz., dispensing-fee to be added in each case; suppositories, 1s. 3d. per doz. (no fee); pills, 3d. per doz., except prl. ferri, 2d. per doz. (no fee). Distilled water to be used and charged for as agreed upon for silver and lead salts, also for all eye-lotions. A letter was read from the Clerk to the Insurance Committee, enclosing two letters asking for information re the new Formulary. It was decided, in reply, to say that the Committee could not answer questions on the constitution of the Formulary, as it had been compiled by the Panel Committee, to whom questions should be addressed. A letter had been received from the Commissioners asking for a number to be suggested for insertion in the model election scheme, Paragraph 27 (1), to which the Secretary, after consulting the Chairman, replied that 15 should be a suitable number. Before this reply could have been received, a telegram was received suggesting 30 as the number, to which the Secretary agreed. The Committee confirmed the action of the Chairman and Secretary. A complaint had been addressed to the Panel Committee as to the large increase in the charges to the Drug Fund. The Panel Committee expressed regret, and asked for particulars for investigation.—A meeting of panel chemists and others was held on June 23. Mr. J. Gilbert Jackson presiding. A list of attendances of the members of the Pharmaceutical Committee was read by the Secretary, showing that Messrs. Jackson, Reynolds, Appleton, and Antcliffe had attended all the meetings. It was decided to nominate the following candidates for the new Committee: Messrs. Appleton, Beaulah, Culverhouse, Chadwick, Haining, Hewitt, Jackson, Oswald, Reynolds, and Williams representing panel chemists, with Messrs. Sleigh (appliances) and Shiptcliffe representing those supplying drugs and appliances only. The present Secretary is not seeking a seat on the Committee, so as to leave himself open for election as Secretary. A letter was read from the Commissioners approving the scheme for election of the new Pharmaceutical Committee, subject to Mr. Woolcock, as returning officer, adopting a suitable form of voting-paper and the number of 15 being inserted in Paragraph 27 (1). The Commissioners are desirous of continuing the chemists' representation on the local Insurance Committee, and through the Pharmaceutical Society are asking for the name of a suitable person. It was resolved to submit the name of Mr. G. T. W. Newsholme for reappointment.

Southport.—The Town Council have appointed Mr. Jas. Righton, chemist and druggist, a representative on the borough Insurance Committee.

Sunderland.—The Insurance Committee have hitherto paid chemists 80 per cent. of the amounts of their accounts monthly, but if this is continued the Committee will find themselves with a deficiency at the end of the year, as the accounts have gone up by from 50 to 100 per cent. This is said to be due to insured persons demanding medicine at a lavish rate, and not to any increase in sickness.

Surrey.—The County Insurance Committee on June 24 passed payment to chemists of 1,030*l.* 10s. 8d. in respect of their accounts for one month to May 11. The Medical Benefit Sub-Committee reported that it had considered the question of checking prescriptions for the remainder of the year 1914, and, in view of the fact that it is not apparently the intention of the Panel and Pharmaceutical Committees to bear any part of the expense of checking prescriptions (*C. & D.*, April 25, 1914, p. 138), recommended that the checking of panel chemists' accounts by the Pharmaceutical Standing Committee be discontinued as from July 11, 1914. The question of checking the accounts in accordance with the regulations will form the subject of a future recommendation.

West Hartlepool.—At a meeting of the Insurance Committee held on June 17, the Medical Benefit Sub-Committee reported that a letter had been received from the Insurance Commissioners, suggesting that the Panel and Pharmaceutical Committees might be asked to share in the cost of checking prescriptions. In reply, it was resolved to inform the Commissioners that the present arrangement had been adopted as the most economical and efficient method under the circumstances, and to ask them to approve this as previously requested. The Sub-Committee also reported receipt of a further letter from the Pharmaceutical Committee, accompanied by a resolution, complaining of the deductions from panel chemists' accounts. A copy of the resolution was ordered to be forwarded to the Insurance Commission. The Clerk reported that the unexpended balance in the Drug Fund, etc., was 75*l.* 0s. 9*1*2*d.*, and it was decided to disburse this by making a *pro rata* payment on the accounts of persons supplying drugs and appliances during the past medical year.—At a meeting of the local Pharmacists' Association on June 18, Alderman T. Clarkson pre-

sided, and Mr. A. Timmins was appointed delegate to the conference on July 15. Messrs. Timmins, Clarkson, Barker, Gibson, Leithhead, Robinson, Cordiner, and Gaunden were nominated as members of the new Pharmaceutical Committee, and Mr. Timmins was nominated for re-election on the Insurance Committee.

Yorkshire (West Riding).—The Pharmaceutical Committee met at Leeds on June 23. Suggestions from Wakefield as to a new Tariff for non-tariff capsules, pills, tablets, etc. (about 100 items) were considered on a report from members who had been active in the pricing of local preparations, and, as the prices in many cases were found to be below those of a typical wholesale house as agreed upon, the Committee declined to accept the suggestions. Mr. Pickard (Ossett) was re-elected representative on the Insurance Committee. It was agreed to take steps to re-elect the members of the present Pharmaceutical Committee. Prescriptions sent in to the Insurance Committee are now acknowledged, and the next prescription-forms will bear the words, "This prescription may be taken to any chemist on the panel." The "Rep. Mist." question has been referred to the Joint Service Sub-Committee.

SCOTLAND.

Sir James Leishman, Chairman of the Scottish Insurance Commissioners, speaking at a conference of Friendly Societies in Stirling on June 20, said the Commissioners are, by private meetings, putting facts and figures before panel practitioners in different parts of Scotland, and are asking the co-operation of all medical men in securing the economical and sound administration of the Act.—Throughout Scotland generally it is understood that chemists have accepted the arrangement arrived at by the General Council of Panel Chemists, which is to continue their agreement until the end of the year and take steps forthwith to have something done for the adjustment of the terms for the year 1915.

Dumbartonshire.—At a meeting of panel chemists held at Glasgow on June 17, general dissatisfaction with the present state of affairs was expressed, but it was agreed to approve of the recommendation from the General Council of Panel Chemists to continue on the panel till the end of the year. It was also agreed to send a resolution to the Pharmaceutical Standing Committee that a trade-union be at once formed to organise a vigorous campaign for a more satisfactory basis for the new contract for 1915. All present were willing to contribute one guinea for this purpose. Chemists' accounts in the county were in the first quarter of 1913 24*l.* 4*s.* 10*d.*, and in the first quarter of 1914 32*l.* 13*s.* 10*d.* The increase in number of insured persons this year was 1,130.

Dundee.—At a meeting of the burgh Insurance Committee on June 17, an account for saccharin tablets was discussed, and it was decided that this should not have been prescribed by a panel doctor nor supplied by a panel chemist, as it is not a drug (*sic*); but in the circumstances the Committee agreed to pay the cost of the tablets, although not the Tariff charge, which was 3*s.* 8*d.* for 500 tablets.

Falkirk.—At the meeting of the local Association (see p. 70), Councillor Sinclair stated that Falkirk is a typical industrial town, with a population of approximately 36,000, of whom one-third are insured persons. The Drug Fund for this number is 900*l.* There are ten chemists in Falkirk burgh, giving an average turnover on Insurance work of 90*l.* per chemist. Supposing the other two-thirds had to be provided with drugs and appliances at the same rate, the average gross turnover per chemist would be 270*l.* Ergo, the chemists could not live.

Fife. The Clerk of the Fife County Insurance Committee has informed panel chemists that the deduction of 30 per cent. from the accounts for May is due to the fact that the drug-bill for the first four months of this year is so much in excess of the drug-bill for the corresponding period of last year. He says the abnormal rise is probably due to excessive sickness, but it is hoped that the remaining period of the current year will show a considerable diminution in the amount of chemists' accounts.

Kincardineshire.—The Clerk to the Insurance Committee has informed chemists that the Drug Fund for 1913 amounted to 458*l.* 7*s.*; panel chemists' accounts were 233*l.* 18*s.* and dispensing doctors were entitled to 106*l.* 8*s.* 11*d.* (1*s.* 6*d.* per insured person), a total of 340*l.* 6*s.* 11*d.*, leaving a balance of 118*l.* 0*s.* 1*d.* Of the total fund, the Committee require to carry forward an eighteenth—25*l.* 9*s.* 3*d.*—leaving available for division among chemists as a bonus the sum of 92*l.* 10*s.* 10*d.*

Perthshire.—Mr. Donald presided at the annual meeting of the Perthshire Pharmacists' Association, when the President (Mr. Donald), Secretary (Mr. T. Harley) and

Treasurer were re-elected. Mr. Forbes, a member of the Pharmaceutical Standing Committee on Insurance, explained what was recently done in Edinburgh, and appealed for funds to carry on the fight. Subscriptions (1*l.* to 5*l.*) to the amount of 25*l.* were promised by those present.

WALES.

Cardiff.—The local Association met on June 16, Mr. W. R. Williams presiding. Mr. J. A. Jones was chosen as delegate to the Local Associations Conference in London on July 15. Mr. A. Hagon afterwards made some observations on Insurance dispensing, and panel doctors' prescriptions, in the course of which he submitted the following statement:

Amount credited to Drug Fund for year ended January 11,	
1914	£5,426
Chemists' account for ditto	£6,086

Deficit £650

Average cost of prescriptions: Quarter ended April 11, 7.05*d.*; July 11, 7.74*d.*; October 11, 8.54*d.*; January 11, 9.23*d.*

Chemists' accounts:

First three months of current year £2,400

First three months of last year £1,393

Increase £1,007

Number of insured persons for last year, 54,000; estimated number for current year, 58,000.

Mr. Hagon said that, in view of the increasing average cost of prescriptions, all the prescriptions for the first quarter of the present year were analysed, when it was found that the lowest was 5.5*d.* and the highest 1*s.* 6*d.*, and generally the average cost was relatively high. A joint meeting of the Panel and Pharmaceutical Committees was held to consider the matter, when the doctors' representatives agreed that the cost per prescription was excessive. It was resolved to appoint a sub-committee consisting of five medical men and five chemists to consider the matter in all its bearings, and report to the Panel Committee. This Sub-Committee will also revise the local Pharmacopœia, endeavouring to improve the formulas and to reduce the prices of some of the mixtures. The Panel Committee had indicated that they would be prepared to take any disciplinary measures to safeguard the Drug Fund. Mr. Hagon stated, in reply to a question, that the matter of payment for temporary residents would be attended to. The meeting decided to ask the Joint Sub-Committee of the Panel and Pharmaceutical Committees to recommend that the term "Rept. mist." should not be used on prescriptions for insured persons. It was also resolved to endeavour to obtain, through the local Chamber of Commerce, a uniform closing hour of shops of traders affected by closing orders now in operation.

Carnarvonshire.—The report of the Clerk to the Insurance Committee for the year which ended on January 11, 1914, states that there were eighty-two doctors and fifty-nine chemists on the panels; 11,622*l.* had been paid to doctors and 224*l.* to chemists in respect of drugs supplied, but the Drug Fund showed a deficit of 185*l.* The number of prescriptions dispensed was 71,000, at a cost per head of from 1*s.* 2*d.* in one district to 4*s.* 10*d.* in another. Arrangements had been made to scrutinise the prescriptions, with the view of ascertaining if there had been instances of extravagant prescribing, and of surcharging doctors where such instances occurred.

Denbighshire.—Mr. J. W. Adamson presided at a meeting of the Pharmaceutical Committee in Chester on June 19, when a vote of sympathy with Mr. J. B. Francis in his serious illness was passed. Mr. J. W. Richardson (Wrexham) was appointed to act as Secretary in the meantime. The Commissioners have confirmed the grant to this Committee for expenses, and it was decided to apply to the Insurance Committee for the grant. Mr. Uglow Woolcock was nominated as the returning officer for the election of the new Pharmaceutical Committee. There was considerable discussion as to suggestions for the Tariff, 1915, and it was resolved—

(a) That quantities of less than $\frac{1}{2}$ lb. or $\frac{1}{2}$ oz. be charged at ounce or drachm rate respectively, but in no case to exceed the price chargeable for $\frac{1}{2}$ lb. or $\frac{1}{2}$ oz., as the case may be.

(b) That concentrated infusions be charged at the price of the corresponding quantity of ordinary infusions and not on the price per pound of the concentration, as at present.

(c) That this Committee strongly deprecates the use of concentrated or stock mixtures.

(d) That "repeat" prescriptions be accepted by chemists, provided that:

1. No other article be ordered on any form prescribing a "repeat."

2. The date of the original prescription be marked on the form ordering a "repeat."

3. No "repeats" to be allowed when the original was prescribed more than twenty-one days previously.

4. The doctor be willing to supply a copy of the original if requested by the chemist.

After an adjournment to allow of the members attending a joint meeting of Panel and Pharmaceutical Committees, it was resolved that a recommendation be sent to the Associations' Conference in the following terms:

That this Denbighshire Local Pharmaceutical Committee is unanimously of opinion that, in a movement of so national a character, the Drug Fund should be pooled, and that such a method is calculated to avoid a deficit in the Drug Fund.

At the joint meeting referred to it was resolved—

That a suggestion should be made to the practitioners in the county that they should, as a general rule, prescribe 8-oz. mixtures with $\frac{1}{2}$ -oz. doses.

A resolution in regard to "repeat" prescriptions in similar terms to (d) (above) was agreed to. In regard to emergency dispensing, Dr. Rowland said that, since dispensing had been taken out of the hands of doctors for those insured persons who live within a mile of a chemist's shop, it is the duty of the chemist to dispense for these patients at all times. The following resolutions were adopted:

That this joint meeting of Panel and Pharmaceutical Committees recommends the Insurance Committee to allow extra dispensing-fees for prescriptions dispensed by chemists outside their ordinary hours of business, each prescription to be marked "Urgent."

That in future prescription-forms be marked panel, sanatorium, temporary resident, and that this be a recommendation to the Insurance Committee."

A motion regarding stock mixtures and proprietaries was submitted to the effect that none should be prescribed except from the Tariff and the B.P.C., and an amendment was proposed; but the matter was referred to a sub-committee consisting of Drs. Moss, J. D. Lloyd, and David Lloyd, and Messrs. J. W. Adamson, L. B. Rowland, and T. J. Roberts, with Mr. E. D. Jones (Clerk to the Insurance Committee).

Notes.

DEATH CERTIFICATES.—The Surrey Insurance Committee, having considered a resolution of the Birmingham Insurance Committee re death certificates, resolved "that representations be made to the Commissioners that provision be made in the next amending Bill to enable insured or uninsured persons to obtain copies of death certificates of insured persons, when required for the purposes of the Act, at a reduced fee."

COMMITTEE MEMBERS' EXPENSES.—At a conference of Chairmen and Clerks of the West Riding District Insurance Committee and members of the County Committee held at Wakefield on Saturday, Alderman Dunn pointed out that the Insurance Act only allowed expenses to the members of the County Committee, and it was resolved that the District Committees take steps to apply independently for power to pay the expenses of members by appealing to the Commissioners for special grants or otherwise.

OWN ARRANGEMENTS" AND CHEMISTS' BILLS.—A report to the Middlesex Insurance Committee states that 557 insured persons have been allowed to make their own arrangements for medical treatment during the year ended January 11, 1914. Of these, 358 are in institutions, seventy-nine contract with their medical attendant on a capitation basis, and 120 pay on an attendance basis. Of the last named sixty-four, or about 54 per cent., sent in doctors' and chemists' accounts; these can be paid by the Committee in full as regards chemists' bills, and a contribution of 9*s.* $3\frac{1}{2}$ *d.* in the pound can be made towards the doctors' accounts.

WILLS PROVEN.

MR. JOHN WHALLEY.—Quaker Cottage, Darley, retired chemist and dentist, who died on March 5, left estate valued at 534*l.* 7*s.* 6*d.* gross, and probate of his will has been granted to his daughter, Mrs. Eva Newsome, and his son, Mr. Alfred Whalley, The New Chester Pharmacy, Sale.

MR. WILLIAM WEST.—F.L.S., chemist and druggist, 25 Woodville Terrace, Horton, Bradford, who died May 15, intestate and a widower, left estate valued at 2,122*l.* 10*s.* 8*d.* gross, with net personality 2,065*l.* 7*s.* 8*d.* Letters of administration have been granted to his son, Mr. George Stephen West, professor of botany, 36 Carpenter Road, Edgbaston, Birmingham.

MR. FRANCIS SAMUEL MOORE.—chemist and druggist, Castle Cary, Somerset, who died January 18, left estate valued at 5,418*l.* 3*s.* 10*d.* gross, with net personality 3,374*l.* 3*s.* 3*d.* Probate of his will has been granted to his daughter, Miss Frances Maria Moore, of Castle Cary, the sole executrix. The testator left 2,500*l.* upon trust for his daughter Dorothy Jane Pope and her husband and issue, and all his other property to his daughter Frances Maria Moore.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Drug-Tariff Reform.

SIR.—In the light of Mr. Cormack's corrected figures I must say that he is right. He has the "arithmetical method" and I have made "the slip." Probably the compilers of the Tariff used the wrong method as I did—viz., added the two percentages. By this method it is evident that the overweight (one-eleventh of the whole) escapes its burden of profit and is charged at cost. So that the deficiency is about 3 per cent. for wrong method and $3\frac{1}{2}$ per cent. for the rough approximation, or, as Mr. Cormack works it more exactly, $6\frac{2}{3}$ in all. I don't think this would make any large difference to anybody's account. But when there is an opportunity for adjustment of minor details our representatives at Bloomsbury might urge with reason that 50 per cent. is a nearer approximation to accuracy than 40 per cent.—With apologies to Mr. Cormack, Yours faithfully,

MORTAR. (7/8.)

SIR.—I shall not waste your valuable space by entering into argument on any of the points of your previous correspondents, but will give my interpretation of the Tariff when percentages are applied. As we are only paid on what we supply, and not a percentage on our outlay, the percentage should be calculated on returns, not on outlay. First example costs 1s. 10d. a lb., divide by 11, equals 2d. per oz.; multiply this by 16, equals 2s. 8d., from which take 1s. 10d., equals 10d. profit out of 2s. 8d., what is it out of 100, the sum thus :

$$32 : 100 :: 10 : 31\frac{1}{2}\%$$

From $31\frac{1}{2}\%$ deduct 10% for overweight, equals $21\frac{1}{2}\%$ real profit. We next divide an oz. price by 7 to get the drachm rate, and multiply this by 8 to get the oz. rate when sold in drachms, therefore we get one out of eight and the percentage is thus—

$$8 : 100 :: 1 : 12\frac{1}{2}\%$$
 additional profit.

We further divide our drachm price by 50 to get the grain price, and multiply this by 60 to get the drachm price when sold in grains, therefore we get 16 out of 60, and the percentage is thus—

$$60 : 100 :: 10 : 16\frac{2}{3}\%$$
 additional profit.

Summary of profits—

Ounce profit ...	...	...	$21\frac{1}{2}\%$
Drachm profit, additional...	...	...	$12\frac{1}{2}\%$
Grain profit, additional ...	...	...	$16\frac{2}{3}\%$
Total ...	...	...	$50\frac{1}{2}\%$

Next as to Rule 2. Accepted that of the four-tenths one-tenth is lost in overweight, leaving three-tenths real profit. Therefore 100 multiplied by 3 and divided by 10 equals 30; add this to 100 equals 130. Then the percentage is thus :

$$130 : 100 :: 30 : 23\frac{1}{2}\%$$

The drachms and grains are the same per cent. as above, and the summary is—

Ounce profit ...	...	...	$23\frac{1}{2}\%$ profit
Drachm profit, additional ...	...	...	$12\frac{1}{2}\%$ "
Grain profit, additional ...	...	...	$16\frac{2}{3}\%$ "
Total ...	...	...	$52\frac{1}{2}\%$..

But it is somewhat ridiculous to talk of percentages when the items are so small, usually $\frac{1}{2}d.$ or 1d.—Yours truly,
C. P. (6/29.)

"Simple Bookkeeping."

SIR.—Your contributor "A Country Pharmacist" appears to realise the importance of the subject of bookkeeping, as evidenced by his groping in the dark—which he calls his system. So far he has the advantage over the average pharmacist, as any attempt at a system is better than none. But there is nothing in his article to warrant the assertion that his method would "offer any advantage to any busy pharmacist" who has any method at all. To summarise the results of your correspondent's original research in bookkeeping. He states that in the place of the "waste" book, day-book, petty ledger, and ledger, he has substituted a "waste" book, a day-book, an "oddments" book, and a ledger, and he has discovered that the loose-leaf ledger has advantages. From this we gather that the particulars of an order have to be written four times over, excluding the statement rendered to customer. And a "new assistant is instructed to search the filed odds or the ledger" to ascertain what a customer owes. How does this compare with "the system used by cash chemists" and sniffed at by your correspondent as savouring rather of the draper, in which the customer's order or particulars are written once only, including the statement, the total is always ready, always in the same place, the statement can be rendered inside one minute at any time, and fifty statements can be got ready in one hour on the 1st of the month, and delivered the same day? In actual practice we deliver over a hundred by the afternoon of the 1st. Well, it is insulting to the draper to compare it, that is all! There is no comparison. It is a contrast. And there is no evidence at present that the average pharmacist will be able, for a long time to come, to teach the draper bookkeeping or any other department of business method for that matter. And since it is from the so-called cash chemist that the average pharmacist has copied what little business method he has recently displayed, I suggest that he might do worse than copy the bookkeeping also. We are further informed that "a cash-book is, of course, kept." And that he "files his invoices and receipts in alphabetical order, entering all payments in a business 'expenses book'—including payments for goods, I think it is reasonable to presume, with such a system of bookkeeping. In my opinion the system as outlined by "A Country Pharmacist" is nothing to be proud of. It is not simple, and it is not even bookkeeping, and I have known the "receiver" to attribute a "failure" as partly due to a similar system. I should consider it an appalling waste of time unless it furnishes, in addition to details indicated, reliable information as to how one stands at any given time, and, with a minimum of labour, a properly drawn-up trading account, profit-and-loss account, and balance-sheet. But would "A Country Pharmacist" be able to state off-hand the difference between a balance-sheet and a profit-and-loss account? If not, let him give up attempting to lead those equally blind.

Yours faithfully,
J. S. MATTHEWS.

Winchmore Hill, N.
For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

More Thanks.

"I should like to endorse the remarks of 'Panel Pharmacist' in your last issue concerning the Secretary of the Pharmaceutical Committee. I have had occasion to consult Mr. Tocher on several points in the working of the Insurance Act from the chemist's point of view, and have found his services of the utmost value."—*Panel Chemist*, S.E. (8/4).

Appreciations.

"Herewith 10s. in payment of subscription to your valuable paper. Only wish all our 10s. brought us in such a grand return on our outlay."—(142/35.)

A subscriber, writing from Nuwara-Eliya, Ceylon, says: "The C. & D. is greatly appreciated by many chemists here, and it is well worth the money."—(141/40.)

"I look forward to reading the C. & D. every week; it is of the utmost value to a pharmacist who desires to keep right up to date. I cannot estimate the value in £ s. d. that it has been worth to the firm, but it runs into hundreds of pounds." So writes an Australian subscriber (5/52).

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

Gold Filled (2/45).—If gold-filled spectacle-frames contain above 2 dwt. of gold, a plate-dealer's licence is necessary (see *C. & D. Diary*, p. 239).

Formolyleptol (7/67).—You should apply at the nearest local Excise office or to the Custom House, London, E.C., for the transfer of the methylated-spirit and patent-medicine licences from your predecessor to yourself. It costs you nothing, and every day that you sell these articles without a licence granted to yourself you act illegally.

Teds (8/44) asks: "Can a chemist who conducts his own business, and exhibits his certificate therein, at the same time be the superintendent of a limited company of which he is the managing director if the company's shop is in charge of another qualified man whose certificate is then shown?" [Yes, subject to the conditions of Section 3 of the Poisons and Pharmacy Act, 1908, which will be found on p. 474 of the *C. & D. Diary*, 1914.]

Bello (259/50) asks how many years an estate has to be in the hands of trustees before it is safe from attack or dispute. [An estate is never safe from attack or dispute. By the Trustee Act, in the absence of fraud, the trustees of an estate are entitled to the protection of the Statute of Limitations in respect of claims after the lapse of six years; but the statute does not begin to run against a beneficiary or creditor until he is in a position to sue, and a claim may be kept alive in other ways.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

Paraffin (237/59).—Vaseline affords a ready-made jelly-form of paraffin, and is readily coloured and flavoured. If, however, you desire to make a jelly from one of the liquid paraffins, we suggest that you try agar-agar, as this promises the best results. The agar-agar is previously swollen with water.

Bishop (256/21).—(1) ADHESIVE FOR AUTOMATIC GUMMING-MACHINE.—The formula we gave in the *C. & D.*, February 28, p. 88, for a mucilage for envelope-flaps would probably suit your purpose, as the conditions under which it is used are similar to those you refer to. (2) GREASE-PAINT.—The brown grease-paint is what is required for actors making-up as "wild men of Borneo." The base of the paint is as follows:

Powdered orris-root	...	...	10 parts
Prepared chalk	...	...	40 parts
Zinc oxide	...	...	40 parts
Camphor	...	...	½ part
Almond oil	a sufficiency to make a stiff paste		

Incorporate enough brown umber and yellow ochre to give the colour desired. The paint will require to be made darker than is desired, as when placed on the face the colour is spread out and also made to appear lighter on account of the skin beneath. You should explain to your customer that the ease with which this preparation is removed by wiping with a dry cloth is a great advantage, and, unlike paints coloured with aniline dyes, the skin is not stained.

M. L. G. (237/56).—PERFUME FOR SPRAYING CINEMATOGRAPH-THEATRES.—The following represents the composition of the concentrated perfumes employed, after dilution, as a spray for purifying the air in cinematograph-theatres:

Lavender oil	...	...	2 oz.
Rose-geranium oil	...	...	1 oz.
Bergamot oil	...	...	½ oz.
Formalin	...	...	1 oz.
Spirit to make	...	...	16 oz.

This is generally employed in the proportion of 1 oz. to 40 oz. of water.

Horticultural (241/19).—CARBOLIC SOFT SOAP.—The best result is obtained by incorporating the carbolic acid in course of the manufacture of the soap. Added with the oil a better combination is obtained. We could give you a formula for the manufacture of the soap if you desire it.

C. A. (234/5).—(1) INDIGESTION-POWDER:

Bismuth, carb.	...	...	5j.
Sodii bicarb.	...	...	5j.
Mag. carb. levig.	...	...	5j.
Pulv. einnam. eo.	...	...	5j.

Misce bene.

Dose: Half a teaspoonful in half a wineglassful of water just after meals.

(2) MOUSTACHE-FIXING LIQUID:

Resin,			
Tolu balsam,			
Benzoin,			
Sandarac, of each	...	...	5ss.
Rectified spirit	...	...	5jij.

Dissolve, strain, and allow to settle until clear.

F. R. D. (255/64).—DENTAL EXAMINATIONS.—The courses for the Professional examination in dentistry of the Royal College of Surgeons in England may be commenced before the Preliminary examination is taken, but the latter or its equivalent must be passed before commencing the course of study laid down for the second Professional examination. Mechanical dentistry is included in the first Professional examination, but diseases of the mouth are a subject in the second Professional examination.

S. C. R. (Pinerolo) (251/52).—EGG-PRESERVING POWDER.—We do not know the composition of the powder to which you refer, but it is stated to consist of lime with some gypsum and iron oxide.

J. D. C. (251/60).—(1) WHITE-LEG AND PHLEBITIS with formation of clot in veins of leg are not quite the same thing: white-leg is caused by blocking of the lymph-ducts. Both conditions are sometimes present together. In either case the treatment is practically the same—complete rest, with the limb raised and bandaged, with the treatment of any septic condition of the uterus found to be present (if there is any evidence of such a condition). Infinite patience is required, and there is no royal road to cure. A certain amount of disability may remain in the leg for years. (2) It is, as you say, tautological to refer to petroleum oil, and this never happens in *THE CHEMIST AND DRUGGIST*, unless, as in the case you refer to, a quotation is being made from another source.

A. J. C. (7/5).—It is not possible to prescribe satisfactorily for the lady on the Continent, who suffers from colds in the head and excessive sneezing, without thorough diagnosis. You should advise her to be examined by a specialist.

E. R. M. (8/8).—Charge a proprietary plaster supplied to Insurance prescription on the Tariff basis—viz., add one-third to the cost, and the 6d. dispensing-fee.

Dispenser (249/66) wants to become a qualified dispenser either in the Army or Navy, and asks us how he should go about it. As far as the Army is concerned, what he has to do is to enlist as a private in the Royal Army Medical Corps, and when he reaches the rank of corporal he may apply for permission to be examined, with a view to appointment as a compounding or dispenser. Particulars in regard to the service may be obtained from any recruiting-sergeant. "Dispenser" should clearly understand that this is a case of enlistment, and the duties are of a varied nature such as are common to soldiers. There are no dispenserships in the Royal Navy.

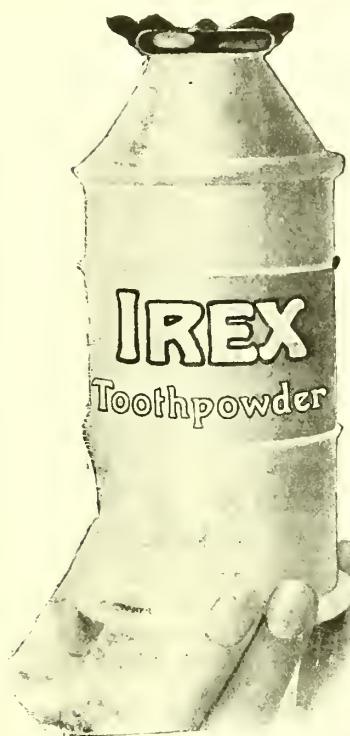
Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1864.

Stamp-duty.

A correspondent in Wolverhampton writes: "Can a person licensed to sell patent medicines legally open a packeton of pills and retail them in pennyworths?" This query has been submitted to Mr. Worthington Evans, our legal adviser, who reports as follows: "I am of opinion that every portion of the original packet retailed in *separate packets* would be liable to the stamp-duty, and that any person so selling the pills would incur penalties, notwithstanding the original packet was duly and properly stamped."

[Italics ours. Mr. Evans was the father of the present M.P. of that name.—*EDITOR C. & D.*, 1914.]



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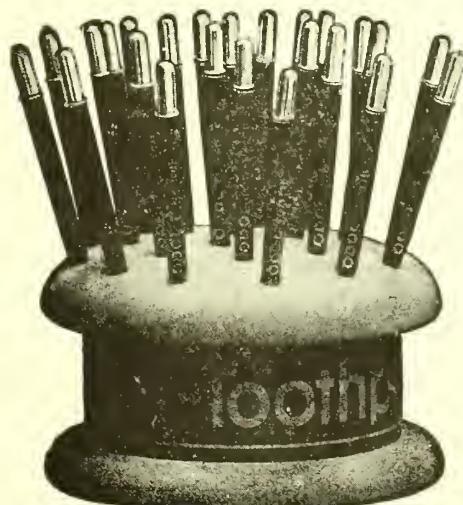
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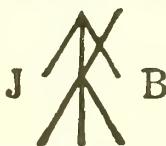
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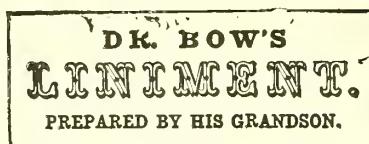
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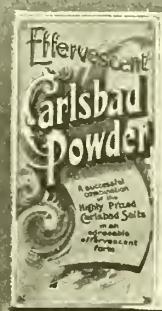
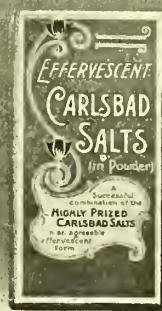
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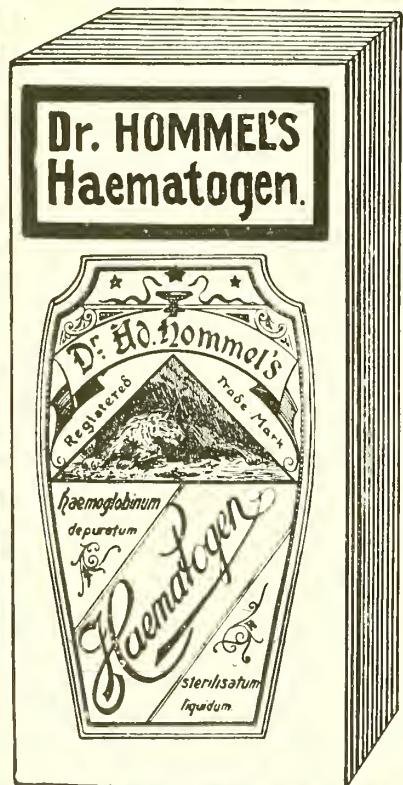
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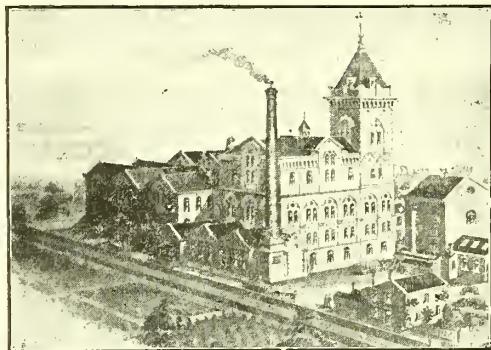
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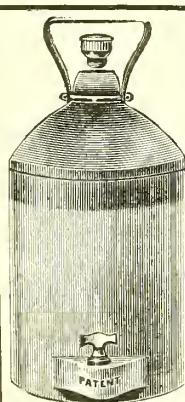
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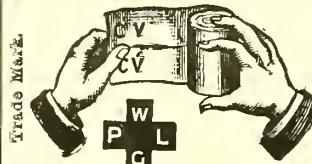
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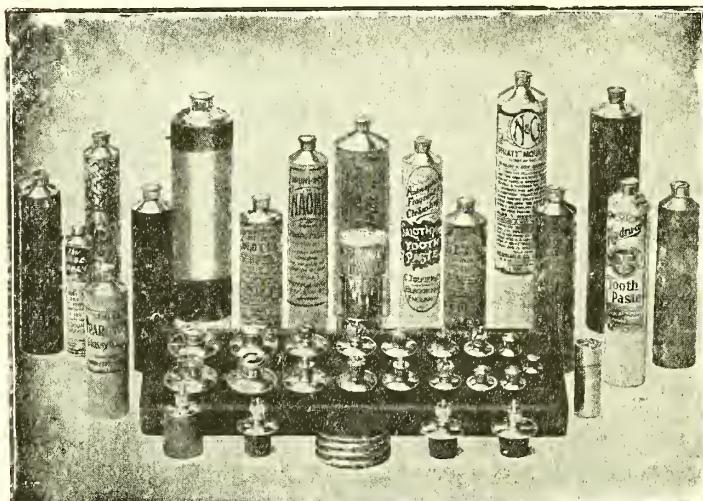
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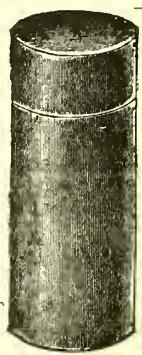
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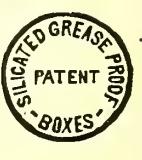


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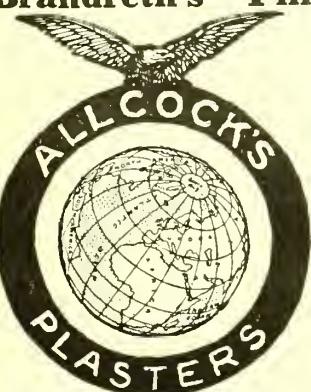
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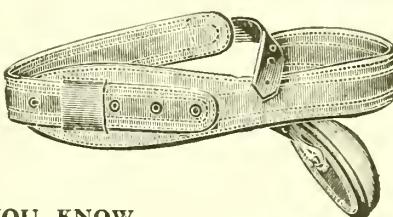
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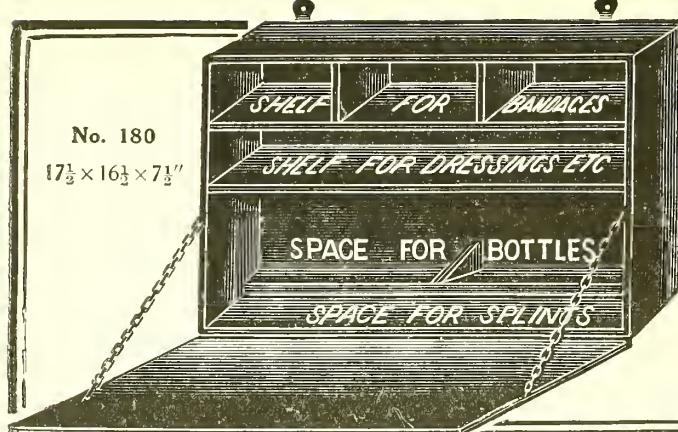
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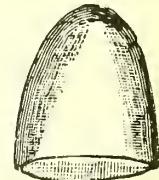
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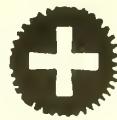
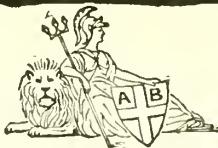
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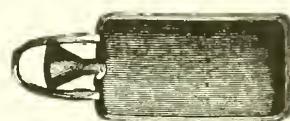


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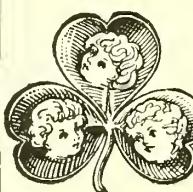
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Offices and Manufactory: 31, 33 & 35 BEVENDEN ST., HOXTON, LONDON, N.

Genuine Thermos Flasks

NEW PATTERNS FOR 1914.

Immense Improvements!

PRICES TO SUIT
EVERYBODY.

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MANUFACTURED BY

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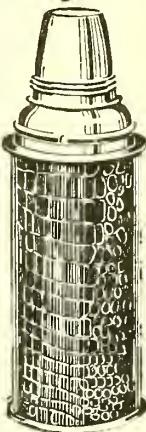
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Free sample sent on application.

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Corks for Chemists

ALBUMOZO TONIC FOOD

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A scientific combination of finest Milk Casein, and Sodium Glycerophosphates, also containing the only true nerve food, viz. Organic Phosphorus, in such a form that it can be easily absorbed and assimilated by the cells, thus strengthening the weakened nerves.



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2 OZ. 8/- per doz. tins.		1/3 per tin.
4 OZ. 12/6	„	2/- „
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TERMS.—14 days net or 2½% discount for cash with order. An additional 5% will be allowed on orders up to the value of £5 assorted, or of one size.

PROFIT 110 PER CENT.

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We shall be glad to send samples and literature to all parts of the world. Colonial inquiries specially solicited.

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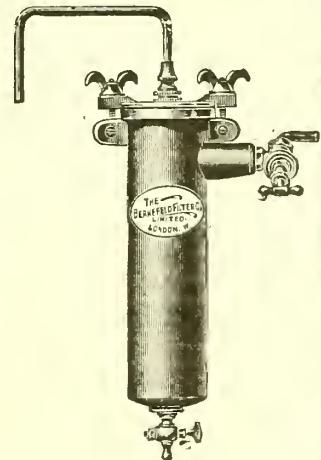
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Chemists who use these Filters *prefer them to using distilled water*, which is often kept for a considerable time in badly stoppered Carboys in a close room.

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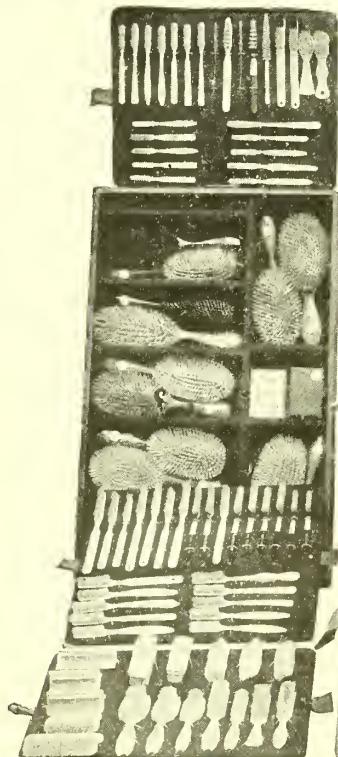
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JUNE 27, 1914.

LONDON & DUBLIN.

SUNDRIES ON APPRO.

It would appear that the fact that we send Sundries on Approval is news to some of our more recent friends, but it is, of course, well-known to our old customers who frequently order new lines "On appro. for fourteen days."

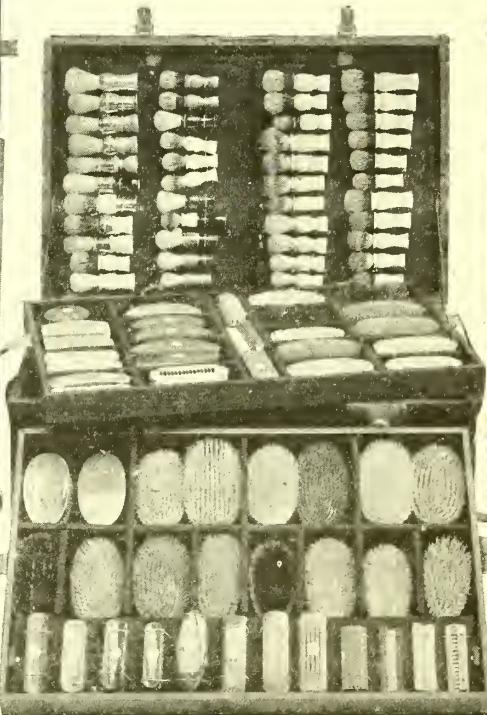


We are quite prepared to make up a selection of assorted Sundries of any description at any time and to send it to you on appro. for 14 days, or to send such goods as you yourself may select.

"THE SILENT COMPANION" TO "MAY, ROBERTS' TRAVELLER."

If in preference to ordering Sundries on appro. (we pay carriage both ways) you would rather have a Selection of Samples sent for consideration, we shall be happy to send you

"THE SILENT COMPANION."



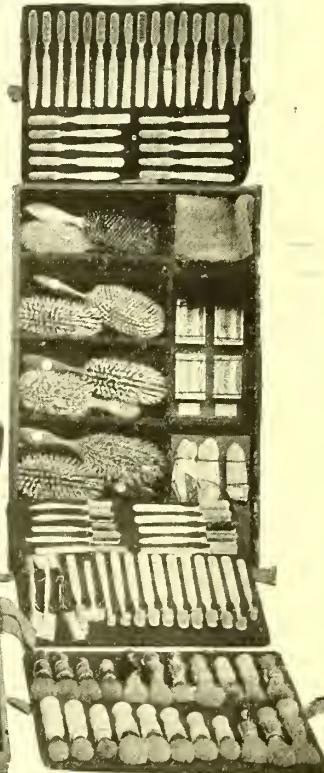
This Case, which is sent Carriage Paid both ways, contains a representative selection of

BRUSHWARE, COMBS, &c.

with full particulars and prices, and will fully demonstrate the superior quality of our goods.

THE MANIFEST ADVANTAGES

of having the goods actually in your possession, as compared with a hurried observation of a traveler's sample case in the interval of serving customers, is too obvious to need comment.



No man can buy and sell at the same time, and the result of trying to do so must sometimes result in both losing customers and in unsatisfactory purchases.

MAY, ROBERTS & CO., LTD.

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LONDON, E.C.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JUNE 27, 1914

Telephone Number: Bank 852 (two lines). Telegraphic Address: "Chemicus, Cannon, London" (charged as two words).

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1.—LONDON (South Side of Thames, Residential Locality).—Good-class Retail and Dispensing Business, situated in main thoroughfare; returns (present rate) about £1,425; net profit £300; attractive shop and good stock; price about £1,000.

2.—LONDON, S.E.—For immediate Disposal, middle-class Business, chiefly ready money; good position; returns £1,460, with excellent profits; price £750; illness causes of sale.

3.—KENT.—Good-class Dispensing and Family Retail trade; returns steadily increasing, present rate over £700; net profit about one-third; well-fitted shop, fully stocked; roomy house; price about £500.

4.—ESSEX.—Retail and Dispensing Business; established many years, and held by vendor 20; returns average £600 per annum; net profit about £200; comfortable residence; price £260.

5.—LONDON, N. (within easy distance of town).—Retail and Dispensing Business; returns average between £1,700 and £1,800; gross profit 40 per cent.; moderate rent; lease 15 years to run; price £1,100, or near offer; large shop, well fitted, with comfortable house attached.

6.—LONDON, W.—Price £450; General Retail and Dispensing Business, with Photographic Sundries; busy thoroughfare in nice residential suburb; 7-roomed house; single-fronted shop, nicely fitted and well stocked; returns £20 per week; net profit £250.

7.—LONDON, N.W. (Main Road).—Good-class Family, Retail, and Dispensing for Disposal owing to a breakdown in vendor's health; returns about £15 per week; very profitable; capital premises; to effect a quick sale some sacrifice would be made.

8.—NORTH OF ENGLAND.—Old-established Business, situated in centre of market town; returns last year £2,100, at good prices; the shop is well fitted and has good appearance; rent £49; valuation terms entertained.

9.—OXON (Good-class Town).—Retail and Dispensing Business, situated in leading thoroughfare; returns average £1,035 per annum; scope for development; terms, valuation of stock and fixtures.

10.—SURREY.—Family, Retail, and Dispensing Business; returns £620; net profit, including income from small appointment, £241; comfortable residence, with garden; nearest opposition two miles; population 3,000; price £430.

11.—MIDDLESEX (Nice Locality, few miles from Town).—Retail and Dispensing Business; no serious opposition; steadily increasing; returns now about £600 at good prices; rent £36, on lease; 7-roomed house and garden; price £350.

12.—YORKS (Large Town).—Special opportunity; for immediate Disposal, owing to serious illness; good-class Retail and Dispensing Business; returns over £800 per annum; net profit £250; no reasonable offer refused; part payment would be considered.

13.—BERKS (Death Vacancy).—Retail and Dispensing Business, situated in a good residential locality, within easy reach of town; returns between £14 and £20 weekly; moderate rental; price £200.

14.—LANCS (Death Vacancy).—Working-class Retail and Dispensing Business; returns under management between £7 and £8 weekly, at good prices; rent £23 10s., including residence; price £140, or near offer.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and

eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

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Telegrams, "Brett Leicester." Telephone 1934.

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AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£900 returns.—SOMERSET.—Very profitable Light Retail, capable of much increase with personal attention; at valuation of stock and fixtures, about £450, part of which can remain.

£1,100 returns.—LEICESTERSHIRE.—Good-class Retail in pleasant town; net profit (proved) nearly £300; nominal goodwill and valuation, about £650; part cash can remain.

£800 returns.—HULL.—Light Retail; very profitable, nice-class trade; vendor retiring; price £500, or valuation.

£700 returns.—DERBYSHIRE.—General Light Retail under Assistant; capable of doing £1,000 under personal attention; valuation £400 to £500.

£1,000 returns.—YORKS.—Light Stores, with Wines; fine opening for N.H.I.; 2,000 patients pass the door; price £325.

£2,100 returns.—LANCS.—Net profit £357; fine position; enterprising man would find plenty of scope; goodwill one year's net profit and valuation, about £1,000.

£700 returns.—DEVON.—Old-established Retail, with Proprietary yielding about half of the returns; anything could be made of this, well handled; price £650.

WANTED, really good BUSINESSES, returning from £1,500 to £5,000; required for cash buyers.

Valuations conducted upon the shortest notice at moderate fees.

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All correspondence should be addressed as above; and at
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Specimen businesses no charge to purchasers.

IN the centre of principal thoroughfare in popular and high-class residential South Coast town, solely in consequence of ill-health; continuously increasing Dispensing and Retail Business, now returning over £2,000; particulars on application, with reference.

EASTERN COUNTY TOWN.—Continuously increasing Light Retail, Prescribing and Family; profitable; returning about £800; good house and shop; vendor desiring to return abroad will accept less than value of stock and fixtures.

DISPENSING BUSINESS, returning £1,000, in West-End of London; high-class trade; can be much increased; price, value of stock and fixtures.

My Register contains a large number of Businesses in all parts of the country, and purchasers are requested to notify their requirements without any charge.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following businesses for Disposal. (No charge to Purchasers.)

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NORTH OF ENGLAND.

In a most desirable and much sought after locality; a good-class Family Retail and Agricultural Business, with fine handsome premises. Returns approach £3,000 per annum, with a gross profit of about 45 per cent., and with scope for very considerable increase; stock and fixtures are worth over £2,200, and vendor will sell for a lump sum of £2,400, or a small goodwill and valuation of stock and fixtures. We can strongly recommend this as the finest thing going; privacy and a cash buyer being essential, references are required.

1.—SURREY.—High-class Business, in excellent position; formerly doing £1,400; now under manager; handsome shop, fully stocked; price £850, or offer.

2.—WEST OF ENGLAND.—Light Retail and Dispensing, in good Seaside Resort; returns £1,850; fine position; price, simply valuation of stock and fixtures, about £1,000.

3.—NORTH-EAST COAST.—Sound ready-money Retail; same hands 16 years, retiring; returns £1,100, increasing; net profit £470 (proof given); good position; fully stocked; price £800.

4.—SUSSEX (near Coast).—Unopposed Light Country Retail, in charming locality; easily worked; returns £500; net profit £152; nice house and garden; owner retiring; price £375.

5.—YORKS (West Riding).—Cash Retail, Prescribing, with N.H.I., in busy industrial centre; returns £860; clear net profit £263; no near opposition; price only £360, bare valuation.

6.—MAIDENHEAD (Death Vacancy).—£200 for quick sale; a smart Chemist's Business, in good position; has done £14 to £20 weekly; stock alone worth £250; very low rent.

7.—LONDON, S.E.—Good Cash Retail; few miles out; returns £1,450; net profit £450; price £800, or offer.

8.—LONDON, N.W.—Good-class Business; no cutting; returns £750; splendid position; price £500, or offer.

9.—LONDON, S.W.—Light Retail, Dispensing, and Prescribing; returns £620; net profit £200; main road position; price £400.

VALUATIONS FOR STOCKTAKING.

Messrs. BERDOE & FISH would like every Pharmacist in business to read page 48 in this year's "C. & D." Diary, and then write for our pamphlet showing the many advantages of having stock taken; with a successful business stock has a habit of increasing, more especially since the Insurance Act came into force; and if only to satisfy yourself that **you are fully insured and in a position to make an indisputable claim in case of fire** it will pay you to have it done. Our terms, which are low, can be had on application. 43 years' practical experience.

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BIRMINGHAM.—Genuine old-established Business, working-class Retail and Photographic; modern double-fronted shop; splendid position; average takings £700; good profits; few Patents; few N.H.L.; scope for great increase by energetic man; four Medical men with 6,000 Panel patients near; long lease; £250; part remain; splendid opening Dentistry. 144/25, Office of this Paper.

CITY OF LONDON (in the heart of).—Dispensing and Prescribing Business for Sale; handsomely fitted; long lease; returns £1,800; full profits. For other particulars apply, "H." 25 Lucerne Road, Highbury, N.

CRICCIETH, North Wales.—The best Chemist's Shop in the town for immediate Disposal; will sell at a sacrifice; £175, or next best offer; easy payments can be arranged subject to guarantee. Apply, Parkin S. Booth, F.A.A., Accountant and Auditor, The Association of Manufacturing Chemists, 2 Bixtoth Street, Liverpool.

IN Pleasant and Healthy Northern Town.—Exceptionally profitable Retail, having several valuable Specialities that only need developing to realise a fortune; business is increasing, and will this year reach £3,000; with capital this can be largely extended; price about £2,000; full details and every investigation courted by bona-fide buyers exchanging references. "North" (9/13), Office of this Paper.

KENT.—For immediate Disposal, "The Market Pharmacy," Cliffe; nearest Chemist 5 miles; National Health Insurance, Photography, Optics, Dentistry; population 3,000; cyclist could reach double; shop, five rooms, and garden; rent £24; rates low; 30 miles from London (South Eastern Railway). W. Frayling, Cliffe, Kent.

LEEDS.—High-class suburban Retail and Dispensing Business; returns £1,500; a genuine investment; every investigation courted; comfortable residence, good garden; price £900, or valuation. 144/4, Office of this Paper.

LONDON.—Old-established Light Retail and Dispensing; returns £ under manager nearly £1,300, and increasing; net profit £300; price £600; every investigation and consideration to quick purchaser; reasons of health requiring removal of present owner to sea coast. Apply, "Probit" (148/5), Office of this Paper.

LONDON, S.W.—Genuine Business for Sale; no near opposition; Insurance Dispensing averages 26s. per week; price £120. Apply, "Phenol" (147/27), Office of this Paper.

LONDON, S.W.—Doing £10 a week under unqualified (and very poor) management; smart little shop, well stocked; few Patents; good prices; plenty of scope for cheap Prescribing, Photo goods, and N.H.L. Dispensing; 7-roomed house; rent and rates under £1 a week; worth £250 to smart man; first reasonable offer secures; must sell for family reasons. Write or call, Thompson, 197 Longley Road, Tooting Junction.

LONDON, S.W.—Good-class Light Retail and Dispensing Business; returns £1,450, and increasing; good profits; modern, double-fronted Pharmacy, fitted in best style and well stocked; capital position; price £1,000, or near offer; will bear strict investigation. Address, "S. W." (148/32), Office of this Paper.

NEAR South Coast.—Rare opportunity owing owner's retirement; entirely unopposed old-established good-class Business; exceedingly low rent; on lease; small comfortable house, garden, and side entrance; lovely healthy country; returns £546 at good profits; price asked £375. Only cash purchasers need apply, 144/1, Office of this Paper.

OLDHAM.—For Disposal, a profitable Light Retail and Dispensing Business, well stocked; full Wine Licence attached; will sell at stock and valuation. Full particulars on application to 147/36, Office of this Paper.

ROBIN HOOD'S BAY, Yorkshire.—Drug Stores Business for Sale owing to death of owner; no opposition; population over 1,600; stock and fixtures to be taken at £100. Apply, Wm. Seaton Gray, Solicitor, 38 Flowergate, Whitby, Yorks.

SOUTH MIDLANDS (Large Town).—Unopposed sound Cash Retail, immediate Disposal; returns last four years £420, £60, £711, £732 respectively; capable doing £1,000; net profit 28 per cent.; rent £40; long lease; no N.H.L.; well fitted, well stocked; good dwelling; everything in good order; value stock and fixtures about £500; must be sold; owner leaving England; what offers? "Statim," 3 St. Phillip's Terrace, Pennfields, Wolverhampton.

SOUTH-WEST OF ENGLAND.—Light Family Retail and Dispensing Business in busy market town; under management, and neglected; present returns £900; large shop, with excellent house and garden; own property; will accept valuation, about £450; will reduce stock and allow part purchase money to remain; exceptional chance for smart man with small capital. "Papain" (148/320), Office of this Paper.

YORK.—First-class old-established Business, with full Wine Licence; on Panel; busy street; large and valuable stock; £150 or near offer to clear. Apply, Clarke & Dent, 12 New Street, York.

ACERATED Water Manufacturers and Others. For Sale, as a going concern, an old-established Aerated Water Business, with large bottling trade. For full particulars apply to Cooke Bros. & Roberts, Auctioneers, Newtown, Mid Wales.

A N old-established, middle-class Business, within three miles of A Bank; main road; handsome corner; well-fitted mahogany, ample store-room; large house; rent only £50; returns over £1,000; has never changed hands; owner now retiring; low price; particulars only to prospective buyers; electric light; every convenience. "Senax" (148/37), Office of this Paper.

DEATH Vacancy.—Good sound Business for immediate Disposal; corner shop in a thickly populated district; good living-house, with separate entrance; must sell at once; no reasonable offer refused. 27 Palatine Buildings, Moss Lane West, Manchester.

ESTABLISHED Light Retail and Dispensing Business, returning nearly £550; business has not been pushed; a smart, up-to-date man would do well; comfortable house; low rent; well fitted and stocked; good opening for Optics and Dentistry; vendor would accept valuation stock and fixtures. "Beckford" (149/10), Office of this Paper.

FINE old-established Business, occupying best position of country market town, situated in healthy and picturesque district, near South Coast; modern Pharmacy and excellent dwelling-house; held on long lease at low rental; owner retiring. Principals only, or their solicitors, prepared to invest £1,400 can have further particulars from "Phenol" (145/36), Office of this Paper.

GENUINE Cash Drug Business; giving up owing to ill-health; takings £550; could be doubled with qualified man; bargain to immediate purchaser. Apply, F. Williams, 5 Eton Terrace, Plymouth.

GENUINE good-class Branch, Retail, Prescribing, and Dispensing, N.H.L.; new shop and fittings, well stocked; over 4,000 population; no opposition; good opening for Dentistry and Optics; satisfactory reasons for disposal; pleasant town, 50 miles London, Kent; electric light; good Panel; good profits. Full particulars to genuine purchasers, 149/200, Office of this Paper.

OLD-ESTABLISHED Retail and Dispensing Business, S.W.; select neighbourhood; returns £450; good house; part could be let off; rent £60; price £400. "Cox" (148/25), Office of this Paper.

PHARMACY for Sale, including large double-fronted shop, well stocked with Drug and Mixed Goods; private garden and large greenhouse; small opposition; large village near Charnwood Forest; by private treaty; old age cause of disposing. W. Stevenson, Chepside, Leicestershire.

£100 cash, or valuation; no goodwill; Yorkshire; Retail and Prescribing; gross weekly profit £5; rent £35; busy, go-ahead industrial town; splendid house, every convenience; vendor must sell quickly, having purchased larger concern; rare opportunity for man with limited capital. Pratt, Ph. Ch., 10 Station Road, Woodford Halse, North Hants.

£350.—Drug Stores and Artificial Teeth Depot; owner retiring; good corner, double-windowed shop, main road, working-class district; thickly populated and district growing; good opening for N.H.L.; fullest inquiries answered to bona-fide buyers; buyer will be taught if required. Fairhurst, 17 Furthegate, Blackburn.

TENDERS.

BILLERICAY UNION.

TENDERS FOR DRUGS, ETC.

THE Guardians of the above-named Union invite Tenders for the supply of Drugs, etc., for one year from 15th July, 1914, according to form of tender to be had on application to the undersigned.

Tenders to be sent to me securely sealed, marked "Tender for Drugs," by Monday, the 6th day of July, 1914.

The Guardians do not engage to accept the lowest or any Tender. By Order,

C. EDGAR LEWIS, Clerk.

Brentwood, 22nd June, 1914.

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BELGIUM.—Advertiser, very efficient, with Chemical-Pharmaceutical training, good appearance, excellent references, well connected with Wholesalers, seeks the Representation of first-class Manufacturers of Chemicals, Specialities, Drugs, etc. Write to 56/32, Office of this Paper.

LONDON Pharmacist, resident New York, and member of Wholesale Chemical firm, with 15 years' established connection amongst Physicians, Pharmacists, and Hospitals, is open to accept Agencies for Novelties in Medical and Pharmaceutical lines; agents in principal cities throughout U.S.A.; references exchanged. "Novelties" (122/8), Office of this Paper.

SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

AGENTS wanted in all parts of the world to take up the local sale of a popular Proprietary. Apply to Vichy Pastilles Co. (Vichy, London, Paris), Expert Office, 3 Coptic Street, New Oxford Street, London, W.C.

CHEMIST, excellent qualifications, desires sound Agency; 20 years' experience in Drugs, Chemicals, and Manufacturing; references exchanged. Address, "C." (148/30), Office of this Paper.

PARTNERSHIPS.

ADVERTISER, 25, unqualified, 9 years' Store experience, desires Junior Partnership, where £100 and services would return about £150 per annum: Wholesale, Retail, or Sundries; London preferred. Please send full particulars to "Statin," 26 The Broadway, Barking, Essex.

MINERAL Waters' Essences, etc. — Permanent situation: Partner required; a large well-known Manufactury of Essences for Mineral Waters and Confectionery trades require the services of an expert with thorough knowledge of Essences; if ability is proved a Partnership or permanent situation will result; strict confidence. Letters, stating age, experience, and if possible enclose photograph, to "Essences," c/o Algar's, 12 Clement's Lane, London, E.C.

QUALIFIED Partner, with capital about £500; splendid opening for gentleman possessing energy and enterprise; Retail and Mail Order; one with knowledge Optics and Dentistry preferred. 149/20, Office of this Paper.

TO Chemists.—Wanted, qualified man (as Partner) to act as Manager; seaside. 57230, "Lynn Advertiser" Office, King's Lynn.

FOR SALE.

COMPLETE Set of Shop Fittings (second-hand), suitable for Branch shop; also Carboys, Scales, Shop-weights. S. Matz, 341 Cheetham Hill Road, Manchester.

COPPER Tin-lined Vacuum Pan, Steam Jacketed, with two Internal Coils, with Vacuum Pump and Condenser; evaporating capacity about 50 gallons an hour; nearly new. Write, "M. M. F.," c/o Street's, 30 Cornhill, E.C.

EQUAL new; National Cash Register; bargain cash. Letters, "A. S.," 96 Brackenbury Road, Hammersmith.

WHAT Offers?—Two gross 12-oz. bottles of Carbolic Acid, with lock and key (to prevent accidental poisoning), sold at 1s.; will accept any reasonable offer, as inventor has not the means of putting it on the market; also 26 doz. 12-oz. clean Poison Bottles. Address, "Patentee," 5 Leinster Square, W.

TO LET.

BECKENHAM.—First-rate opening for Chemist; Shop and good back premises; roomy house; first-class position; low rent to good tenant. Apply, 102 East Dulwich Grove.

BUSINESS Premises, commodious, in Chesterfield; large double-fronted Shop, with spacious and modern living accommodation, warehouse, stables, and other outbuildings; a splendid opportunity for a Chemical firm wishing to acquire branch premises in Chesterfield. For further particulars apply, F. G. Redfern, 446 Chatsworth Road, Chesterfield.

TO Let, in a rapidly growing shop centre in the Undercliff, Felixstowe, a new Shop, with residence over planned for season letting (100 yards from Sea and Pier); excellent opening for a Chemist; no such business within three-quarters of a mile; reduced rent for first two years. Apply to Tuddenham, Builder, Felixstowe.

APPRENTICESHIPS.

APPRENTICE wanted immediately; outdoors; no premium required; progressive salary; agreement for four years; an opportunity for all-round experience; short hours. For further particulars apply, Mr. Ness, Pharmacist, 68 Brixton Road, S.W.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 5d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

ALFRETON, Derbyshire.—Wanted at once, unqualified Assistant or Junior, 20-23, for good Country business; outdoors; no Sunday duty and half-holiday weekly. Apply, stating full particulars, references, and photo if possible, to C. M. Dyson, Chemist, Alfreton.

BEXHILL-ON-SEA.—Wanted in a first-class Pharmacy on the South Coast, a capable Assistant, with good Dispensing and Counter experience; outdoors. Apply, F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

BIRMINGHAM.—Manager wanted, of experience, about 30, to reside on premises; good Counterman and Window-dresser; must be quick and obliging; one with knowledge of Dentistry and Optics preferred; salary and commission. Full particulars, in confidence, 146/26, Office of this Paper.

BRISTOL.—Qualified Manager for Branch business in working-class neighbourhood; Junior kept; good house accommodation over premises; ordinary cash counter trade, with Dispensing and some N.H.I. work; hours 8.30 to 8.30, Fridays to 9, Saturdays to 10; no Sunday duty; closed Wednesdays at 1. Apply, with full particulars of previous experience, age, height, salary required, and references, to Managing Director, Henry Hodder & Co., Ltd., 5 Nelson Street, Bristol.

BUXTON, Peak District.—Qualified Assistant (outdoors) for high-class Dispensing business. Full particulars to Pugh, Chemist.

CHESTER.—Reliable Junior required for a good-class Dispensing and Retail business; indoors. Please give full particulars, etc., and if possible enclose photo, to John P. Craine, Northgate Pharmacy, Chester.

CLOACTON-ON-SEA.—Junior Assistant wanted for about three months for Dispensing, Light Retail, and Photographic business; outdoors. Apply, giving full particulars and enclosing photo, to W. Mann Pharmacist, Clacton-on-Sea.

DOVER.—Alexander Bottle & Co., 37 Town Wall Street, require an experienced Assistant as Junior by July 20. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, and enclosing photo (to be returned).

EAST HAM.—Wanted immediately, qualified Assistant; Extractor preferred, but not essential. State age and salary required (outdoors). Apply, Wardale & Co., 132 High Street, North.

ETON, Windsor.—Young unqualified Assistant required; outdoors; hours easy. Apply, stating salary required, to Reid, 30 High Street, Eton.

FRINTON-ON-SEA.—Experienced unqualified Assistant to help in opening Branch and for season; salary 50s. Apply, stating age, when disengaged, and full particulars, to the Proprietor, Maskew & Co., 26 and 27 Electric Parade, Clacton-on-Sea.

GLoucester.—Unqualified Second Assistant; outdoors; good appearance and address; for Light Retail and Dispensing business; good salary to competent man. State age, height, salary, with photo, Jos. Ward, Pharmaceutical Chemist, Gloucester.

GRANTHAM.—Wanted, a competent Assistant; one accustomed to a Country business and desiring a permanency preferred; outdoors; easy hours. Apply, with full particulars, W. D. Cox, 36 Watergate, Grantham.

ILFORD.—Wanted at once, Part-time Assistant; evenings only; N.H.I. Dispensing; must be neat and accurate; no Sunday duty. State salary required to J. Patterson, 52 Ilford Lane, Ilford.

KESWICK, Cumberland.—Wanted, a Junior Assistant for season K. trade until September 30. Apply, with full particulars, to Townley, Pharmaceutical Chemist, Keswick.

KING'S COLLEGE HOSPITAL, Denmark Hill, S.E.—Qualified male Assistant Dispenser wanted; salary £100 per annum, with dinner daily. Applications, stating age and experience, with copies of testimonials, to be sent at once to E. B. Fairweather, Dispenser.

LANCASHIRE.—Wanted, qualified Manager, about 35; good and quick Salesman required; salary £3 per week and commission. Please give references, etc., with photo, 147/35, Office of this Paper.

LONDON.—Unqualified Assistant (outdoors) for Dispensing business. Apply, with references, salary, etc., to Adams, 21 Formosa Street, Maida Vale.

LONDON.—Two thoroughly competent Assistants, one qualified, outdoors, for high-class Pharmacy; opportunity for learning Optical work; good progressive salaries. Apply, with fullest particulars, to "W. J.," c/o Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

LONDON.—Wanted, for Light Retail and Dispensing business, an unqualified Assistant; outdoors; easy berth. Apply, 147/31, Office of this Paper.

LONDON, N.—Qualified Assistant; outdoors; experienced in middle-class Family business; good Prescriber and Counter-man; weekly half-holiday; in reply state particulars of experience, also salary asked. Apply first, E. A. Brown, Chemist, 40 Essex Road, Islington, London, N.

LONDON, S.E.—Unqualified Assistant required in high-class Retail and Dispensing business; two kept; outdoors. Gouden & Allen, Bromley, Kent.

LONDON, S.E.—Outdoor Assistant, about 22, wanted early in July for six weeks. Send particulars or call, Bantbury, 390 Walworth Road, S.E.

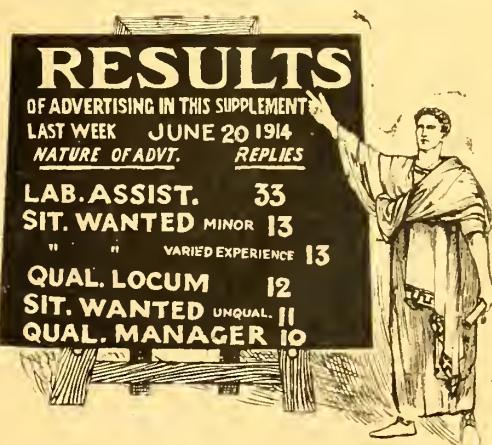
LONDON, S.E.—Reliable qualified Assistant required as soon as possible for permanency; interview preferred. Apply, stating when disengaged, age, salary, and giving references, to Beale & Son, Chemists, South Norwood, S.E.

LONDON, S.E.—Wanted, an unqualified Assistant or Junior (outdoors) for September 1, good Counterman, Window-dresser, and Dispenser; also a Locum Assistant, unqualified (outdoors), for two weeks in the middle of July. Apply, stating full particulars, salary required, references, etc., 146/28, Office of this Paper.

LONDON, S.E.—Young qualified Assistant wanted, married, to take charge of small business when required; must be good Counterman and accurate Dispenser; good references essential; furnished rooms, over business, gas, etc. State age, experience, and salary required, "E." (148/22), Office of this Paper.

LONDON, S.W.—Wanted, beginning of August, qualified Assistant (indoors); Dispensing and Retail. Apply, stating age, height, salary required, with full details of previous experience, "Zinci" (145/29), Office of this Paper.

LONDON, S.W.—Gentlemanly Assistant for evenings, 6 to 9.30, Saturday 5 to 10.30; about 24-26 years of age: Store Dispensing. Full experience and qualifications, salary and photo, Percy T. Harris, 183b King's Road, Chelsea, S.W.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed o/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

LONDON, S.W.—Assistant required, at once; outdoors; qualified or unqualified; no Sunday or night duty. Mr. Bourdas, Bradley & Bourdas, 6 Pont Street.

LONDON, S.W. Suburb.—Unqualified Assistant, about 25 years, by the middle or end of July; with good Dispensing, Photographic, and Counter experience; salary 45s. (outdoors). Apply, 149/21, Office of this Paper.

LONDON, W.—John F. Harrington, 15 Kensington High Street, requires an experienced Assistant as Junior by July 6. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, and enclosing photo (to be returned).

LONDON, W.—Wanted immediately, capable Junior Assistant; age not over 30; must be quick, accurate, and clean Dispenser; hours 8.45-6, Saturdays 1; no Sundays. Apply personally (if by letter state if disengaged), Manager, Drug Department, Hospitals and General Contracts Co., Ltd., 25-35 Mortimer Street, W. Telephone 5840 Gerrard.

LONDON, W.—Continental Assistant required; must be good Counterman. Full particulars as to experience and salary to 145/18, Office of this Paper.

LONDON, W.—Assistant wanted at once for Counter and Dispensing; comfortable berth for the right man. Please state usual particulars to Maurice Jones, 298 Harrow Road, W.

LONDON, W.—Assistant required for temporary engagement, July, August, September, in large West-End Pharmacy. Apply, giving full particulars of age, experience, and salary required, to 149/8, Office of this Paper.

LONDON, W.—Qualified Assistant; outdoors. Apply, stating age, height, salary required, with full details of previous experience, to Roberts & Co., 76 New Bond Street, W.

LONDON Suburb.—Junior Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemists, 146 Hoppers Road, Winchmore Hill, N.

LONDON Suburb.—Qualified Branch Manager for first-class Retail, Dispensing, and Photographic; outdoors; good prospect and permanency for capable and reliable gentleman. Give full particulars, including age, height, experience, references, photo, and salary required, to Matthews, Chemists, 146 Hoppers Road, Winchmore Hill, N.

MANCHESTER.—Junior Assistant wanted; Suburban Dispensing business. Bates, Chemist, Brooks's Bar.

MANCHESTER.—Mottershead & Co., 7 Exchange Street, have a vacancy for a qualified Second Dispenser; accustomed to high-class business; no Sunday duty. State fully experience, age, and salary required (outdoors).

MANCHESTER CHILDREN'S HOSPITAL, Pendlebury.—Out-patients' Department, Gartside Street, Manchester.—Qualified Assistant Dispenser required; commencing salary £75 to £85 according to qualifications and experience; forms of application may be obtained from the undersigned, and must be returned on or before July 4, 1914. By order of the Committee. Hy. J. Eason, Secretary.

MANCHESTER District.—Assistant wanted; permanency if suitable; must be capable Dispenser and good Window-dresser. State salary required, 144/9, Office of this Paper.

MINEHEAD.—Wanted at once (outdoors), a good all-round, reliable Assistant, about 21-24 years of age, for Dispensing, Retail and Photographic business; hours 8-8, Monday and Thursday to 9, Saturday to 10; Sunday duty one hour each week; Wednesday half-holiday. State age, experience, references, and salary required to Parkin, Pharmacist, Minehead, Somerset.

NEAR LEEDS.—Wanted, a reliable Manager for small Branch Store; qualification not absolutely essential; knowledge of Photography and Extraction work desirable; abstainer preferred. Apply, giving full particulars, to 147/39, Office of this Paper.

NEAR Manchester (12 miles).—Junior or unqualified Assistant wanted for Mixed business; outdoors. Particulars and salary required to 147/21, Office of this Paper.

NORTH OF ENGLAND.—Qualified Locum wanted, age about 30 to 45, for two months, starting August 1, 1914. Apply, "Cumberland," c/o Ayrton, Saunders & Co., Ltd., Wholesale Druggists, Liverpool.

AN Assistant wanted, 24 to 30 years of age, for high-class Dispensing and Retail, with Photography; in- or out-doors; easy hours. T. E. Savage, Pharmacist, Crouch End, N.

NORTH STAFFS.—Assistant, unqualified, for working-class district; outdoors; age about 25; Insurance Dispensing and General Retail. State experience, salary required, photo if convenient, 146/29, Office of this Paper.

PRESTON District.—Qualified Chemist wanted for the opening of a new shop; consideration given to a reliable man seeking permanency; age 35-40; full particulars first letter; live out. Swindlehurst, Dunthorpe, Leyland.

PUTNEY.—T. Jones & Co. require an Assistant, about 25; must be accustomed to good-class Retail and Dispensing business and have good references. Apply personally or by letter (with photo if convenient), to Mr. Amoore.

RROYAL ALBERT HOSPITAL, DEVONPORT.—A qualified Dispenser (male) is required at once for this Hospital and Provident Dispensary; salary £100; midday meal provided. Applications, stating qualifications and enclosing testimonials, should be sent to the Secretary. June 23, 1914.

RROYAL LANCASTER INFIRMARY.—Wanted at once, a qualified Dispenser. Particulars and form of application from the Hon. Secretary.

SCARBOROUGH.—At once, Junior or Improver for season, or permanency; Dispensing and Photographic. Age, salary (outdoors), and references in first letter. Hunt & Ruff, Pharmacists, opposite Railway Station.

SOUTH KENSINGTON.—Wanted at once, smart unqualified Assistant, aged 27-35, with high-class Dispensing experience; quick and accurate worker; wanted at a commencing salary of £2 7s. 6d. weekly (outdoors). State height and details of last three situations to N. Howard Schollar, Pharmacist, 29 Sussex Place, Queen's Gate, S.W.

SOUTH LONDON HOSPITAL FOR WOMEN (Inc.).—Qualified Woman Pharmacist required at end of August; hours: two days 10-6, four days 2-6; prospect of full-time appointment later. Apply, stating salary required, with copies of testimonials, to the Secretary, 88-90 Newington Causeway, S.E.

SOUTH WALES.—Wanted, smart Junior for quick Cash trade. Apply, stating salary required (outdoors), and give full particulars, with photo if possible, Francis, Chemist, New Tredegar.

TUNBRIDGE WELLS.—Assistant, accustomed to high-class Dispensing business, required early in August. State full particulars of experience, salary required (in- and out-doors), to Howard & Son.

WEST RIDING OF YORKSHIRE.—Elderly qualified Chemist required for comfortable berth; hours not excessive; work congenial. State age, salary required, and when at liberty. 146/42, Office of this Paper.

WHITCHURCH, ISALOP.—Wanted by the middle of July, a good, capable Assistant; outdoors; one used to Agricultural business and seeking a permanency preferred. Apply, stating age, experience, height, references, whether married or single, salary required, and photo if possible, to S. C. Rowland, M.P.S., Pharmacist, Whitchurch, Salop.

WORTHING.—Assistant wanted; unqualified; good-class business. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, 27 Montague Street, Worthing.

WREXHAM INFIRMARY.—Wanted, on July 17 next, qualified Lady Dispenser; board, lodging, and washing provided; salary £30 per annum; morning work only. Applications and testimonials to the Secretary, 7 Hill Street, Wrexham.

YORKSHIRE and Lancashire.—Qualified Locum required to take charge of businesses during holidays of managers; permanency afterwards if Locum work satisfactory. 146/41, Office of this Paper.

A GOOD salary will be paid for the services of a competent Assistant as Second where three are kept, for season July-September; Dispensing and Counter, with Photography; outdoors; Junior also wanted. Full particulars to H. F. Douthwaite, Pharmaceutical Chemist, Felixstowe.

AN Assistant wanted for next two months; outdoors. Apply, with full particulars, Hall & Son, George Street, Luton.

ASSISTANT (unqualified) for Wholesale and Retail Drug trade; active, not afraid of work. State age, references, salary required, C. A. Critchley & Co., Pharmaceutical Chemists, 10 King William Street, Blackburn.

ASSISTANT wanted (lady or gentleman), permanently or for a season, in good-class Country business in inland spot; indoors or outdoors; state salary required, experience, age; hours 8 to 8 Wednesdays close 1 o'clock, Saturdays 10 p.m.: no night or Sunday duty. J. Ward, Pharmacist, Builth Wells, Mid-Wales.

ASSISTANT, about 24 or 25; knowledge Photography; easy hours; no Sunday; unqualified. Freshney's, Chemists, Grimsby.

ASSISTANT (qualified or unqualified) wanted about June 9 for City Pharmacy; must be thoroughly accustomed to high-class Dispensing; must be quick and accurate, and capable of assisting at Front Counter when required; hours 8.45 to 7, Saturdays 1.30; no Sunday, night, or holiday duty; salary £2 10s. per week plus 10 per cent. commission; long list of own Specialities. Apply, 142/25, Office of this Paper.

ASSISTANT, unqualified (outdoors), about 26, well up in Photographic work, Developing, Printing, and Enlarging; July 31 for five weeks. Apply, stating age, height, and salary, to Cole, William Street, Herring Bay.

ASSISTANT, studying for exam.; half-day's work, half-day's study at seaside, till about middle of September. 147/19, Office of this Paper.

ASSISTANT: well up in Dispensing; either qualified or not. State which, salary required, when disengaged, names two last employers. 147 109, Office of this Paper.

ASSISTANT wanted, with good Dispensing and Counter experience, smart and capable. Apply, Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

ASSISTANT; permanency; outdoors; good Counterman and to finish at Dispensing Counter. Apply, stating full particulars and salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

ASSISTANT, good Junior or Improver, with excellent chance for one studying. Apply, stating salary required (indoors or outdoors), to "C. D." Jones Bros. (Holloway), Ltd., Holloway, N. Hours 7.30, Saturday 1 o'clock; no Sunday duty.

AT once (outdoors), qualified man for Light Retail and Dispensing business, with Photographies; Sunday duty about four hours every third week; good opportunity for smart man. Apply, if by letter stating full particulars, or phone 446 Streatham, C. Breece, 73 Mitcham Lane, Streatham, S.W.

CAPABLE unqualified Assistant required, to do some Relief work, commencing July 20. State age, experience, and salary required, "Locum" (146/43), Office of this Paper.

CHEMIST and Dentist, doing all work on premises, has vacancy for Assistant. Please state full particulars, age, experience, where obtained, ability in Pharmacy and Dentistry, Surgical or Mechanical, if married, what family, class of business and hours used to, salary required, when disengaged, references, photo, Foster, Ivydale, London Road, Portsmouth.

DIRECTORSHIP offered by West-End Company to fully qualified Chemist, to take full control of business and with view to early succession, or would entertain immediate sale at a low figure. Salary, qualification, and all particulars from 149/2, Office of this Paper.

DISPENSER and Bookkeeper wanted by Practitioner living on East Coast; ex Sick Bay man; single man preferred; work light; state wages required. Apply, "P. S." (146/8), Office of this Paper.

DISPENSERS.—A number of women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 259/52, Office of this Paper.

EVENINGS; Dispenser wanted after about 7 p.m. Apply to Foster & Dallas, 1 Lavender Hill, S.W.

FRANK A. ROGERS, 327 Oxford Street, London, W., will have a vacancy shortly for a qualified Assistant; outdoors. Please give full particulars of experience, etc.

IMEDIATELY.—A competent qualified Assistant. Apply, with full particulars, to D. R. Thomas, 65 Banbury Road, Oxford.

IMEDIATELY.—Qualified and unqualified Assistant wanted, used to good-class modern Cash and Dispensing business. Photo (if possible) and full particulars to "Essex Coast" (146/15), Office of this Paper.

JUNIOR, 20-22; good Counterman. Apply, stating age, height, salary required, references, photo (to be returned), E. F. W. Thorp, 96 Princess Road, Moss Side, Manchester.

JUNIOR wanted, must be steady and reliable, for good-class Dispensing business; outdoors; 35s. per week; easy hours. Apply, with full particulars and references, to E. E. Hall, Newbridge Pharmacy, Wolverhampton.

JUNIOR Assistant wanted for good-class Dispensing and Retail business. Allen & Lloyd, Aldershot.

JUNIOR Assistant wanted; outdoors; Retail. Apply, photo and full particulars, Ayre, Thirsk.

JUNIOR Assistant required; good-class Dispensing and Retail; Photography essential. Full particulars to Percy B. Gray, Ph.C., The Rexall Pharmacy, Rugby.

JUNIOR, accustomed to first-class business. Please state salary required, reference, etc., and if possible enclose photo, Balkwill & Co., 106 Old Town Street, Plymouth.

JUNIOR Assistant required at once; time allowed during the day for study, also help given to one anxious to qualify; services required principally for evenings; very little to be done during the day. Apply, giving particulars of experience, age, height, and salary required, to "Chemist," 64 Bull Street, West Bromwich.

JUNIOR or improver, about 20; fair knowledge of Dispensing and Counter work; easy hours; no Sunday duty. State age, experience, references, and salary (outdoors), to Johnson, Pharmacist, Red Lion Square, Stamford.

JUNIOR (outdoors) for Dispensing and General Retail business. State age and salary required, Neve & Co., Pharmaceutical Chemists, Silverhill, St. Leonards.

LADY Assistant required; South Wales; Dispensing and Counter; good-class Pharmacy; comfortable berth. 145/40, Office of this Paper.

LEWIS & BURROWS have one or two vacancies for Senior unqualified men. Apply, with full particulate, to 146 Holborn Bars, E.C.

LOCUM required July 18 to August 2; qualified. Apply, with full particulars, salary (outdoors), references, to Dixon, Chemist, Elland, Yorks.

LOCUM, qualified, about August 20, for 14 days: Midlands. Full particulars will oblige. 145 11, Office of this Paper.

LOCUM wanted; qualified; used to good-class business. Apply, with full particulars, to R. C. Harrison, Pharmaceutical Chemist, Grayshott, Surrey.

LOCUM, qualified, for a fortnight in August. W. Ralph, 19 Burnt Ash Hill, Lee, S.E.

LOCUM wanted for last two weeks in July. State full terms (outdoor), J. Bury, Harpenden.

MIDDLE-AGED, unqualified Assistant desiring a permanency is requested to apply, in confidence, to "X." (146/34), Office of this Paper.

PART-TIME Assistant; reliable Dispenser and used to quick Retail; hours 1.30 till 10, Saturday 11; tea provided; alternate Sunday 6 till 10. State age, height, experience, and salary required, "Civ." (145/19), Office of this Paper.

PHARMACIST for new branch; permanency with good salary and excellent prospects offered gentleman with ability and energy. Apply, Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

QUALIFIED Locum for two, three, or four weeks, early July or earlier. Booth & Openshaw, Blackburn.

QUALIFIED Manager required to relieve country managers for holidays for about three months; permanent management afterwards if satisfactory; must be a man of ability and absolute integrity. "Country" (146/44), Office of this Paper.

QUALIFIED for Branch for July 6; energetic, willing. State wage expected and all particulars, Russell, Chemist, Leigh, Lancs.

QUALIFIED Assistant, age about 24, accustomed to good-class Dispensing business. Apply, Edwards & Son, Pharmacists, Godalming.

QUALIFIED Assistant, single (outdoors) in good-class Dispensing and Retail. Apply, giving full particulars of age, height, experience, references, salary required, and enclose photo (to be returned), to W. A. Bell, The Strand, Southsea.

QUALIFIED Manager, single (outdoors), about 25, required for good-class Retail and Dispensing business; must be a smart Counterman; Junior kept. Address, stating age, height, salary, references, etc., and enclosing photo (to be returned), to T. Woodruff, Pharmacist, Ellesmere, Dialstone Lane, Stockport.

QUALIFIED Locum wanted for fortnight, end of August or beginning of September. References and terms to Pickering, Chemist, Bishop Auckland.

QUALIFIED Branch Manager for good-class business; good prospects for reliable man. T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

QUALIFIED Assistant (male) for nine weeks commencing July 3; hours 9 to 6. Apply, Pharmacist, West London Hospital, Hammersmith, W.

QUALIFIED and unqualified Assistant required at once; suit either lady or gentleman. Apply, 148/3, Office of this Paper.

QUALIFIED Assistant; permanency; one need to good-class Dispensing and Family Retail, with Photography; must be steady, reliable, and trustworthy; three kept. State age, height, salary, and reference, to "J." (147/90), Office of this Paper.

QUALIFIED Chemist, experienced in Store methods and management, required to assist in supervision of old-established provincial business with branches; must be prepared to take a pecuniary interest in same and furnish undenial references as to ability, etc. Address, with full particulars, 147/8, Office of this Paper.

QUALIFIED Chemist required, with view to early succession, owing to death of principal; genuine inquirers with cash can have full particulars. State age, salary required, send photo (to be returned), 147/18, Office of this Paper.

QUALIFIED Manager required, with good experience and references, for Cash business, with N.H.I. Dispensing; half-day off weekly; good progressive salary and commission to the right man; outdoors. Armstrong, 343 Upper Street, Islington.

QUALIFIED Junior Assistant; outdoors; preferably with West-End experience. Apply to "Juniper," c/o Messrs. S. Maw, Son & Sons, 7 Aldersgate Street, E.C.

SHORT Hours—Reliable Assistant, not under 24 nor over 30, from July 29 for six weeks; City experienced preferred; suit student; 9.30 to 6.30, one day till 7.30, Saturday 1.30; no Sunday; must be quick and cheerful; full time optional from October as Managing Assistant. Give particulars to "Wenol" (148/34), Office of this Paper.

SMART qualified Assistant required immediately; indoors; must be gentlemanly and accustomed to good-class business; please state salary required and give references in first letter. Apply, 143/3, Office of this Paper.

THOROUGHLY capable Assistant required immediately, qualified or unqualified, for good-class Dispensing business. Apply, full particulars of experience, height, salary (indoors), and enclose photo if possible, "Sussex" (147/13), Office of this Paper.

UNQUALIFIED Assistant for permanency for Dispensing business. State age, height, salary, when disengaged, if married, 147/190, Office of this Paper.

UNQUALIFIED Locum wanted, August 3 to September 5. State terms and references to Lands, Chemists, Coalville, near Leicester.

UNQUALIFIED Junior Assistant wanted, male or female, for Drug Department, State age, experience, and wages, Co-operative Society, Stocksbridge, near Sheffield.

UNQUALIFIED, competent Assistant, chiefly N.H.I. Dispensing. Strode, 88 Askew Road, W.

WANTED in September or early in October, a thoroughly reliable and trustworthy unqualified Assistant; one seeking permanency preferred; age 27-40; Eastern Counties. Reply, 143/37, Office of this Paper.

WANTED, an elderly qualified man to conduct a widow's business with the help of an Assistant; very light duties, comfortable home, and nominal salary; abstainer and Churchman preferred. 146/31, Office of this Paper.

YOUNG lady, qualified (or unqualified entertained), wanted to take charge of good-class Branch business; experience of Retail and Dispensing essential; nice town, North-East Coast. Please give full particulars and salary required to "A. A. H." (146/40), Office of this Paper.

£90 per annum (indoors).—Assistant (qualified) for good-class Dispensing and Family trade; must be a neat and careful Dispenser and have a knowledge of Photography; duty divided between three. State age, height, photo, experience, and reference to "F." (147/9), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

COUNTER hand, aged about 20, required on Dry Floor of London Wholesale house. State previous experience and wages required to 149/12, Office of this Paper.

DRUGGIST Sundries and Toilet Articles. — Experienced Traveller wanted for South and East Coast. Apply, 142/20, Office of this Paper.

DRUGGISTS' Sundries, Brushes, Combs, etc.—Reliable Representative wanted; good opening for energetic man to take over established connection. Send full particulars in confidence to "Clinical" (147/14), Office of this Paper.

GOOD Salesmen required, with connection amongst Chemists, for introducing "Nu-tro" Hair Preparations under competition offer advertised in the C. & D.; very small amount of samples; liberal commission. State age, full particulars, and ground covered to "Nu-tro" Co., 31, 33, 35 Lower Castle Street, Bristol.

INVOICE Clerks required in office of Manufacturing Chemists; must be quick and accurate at figures and have had some experience in similar position. Write, "Cygnet" (9/12), Office of this Paper.

JUNIOR Wet-Room Assistants wanted. Apply, by letter only, with full particulars, to Raimes & Co., Wholesale Druggists, York.

LABORATORY man, accustomed to Emulsion-making and General Laboratory work, wanted for Manufacturing house in London. Full particulars and wages expected to "Alpha" (145/38), Office of this Paper.

LABORATORY Assistant, with minor qualifications; good opportunity for the right man; not over 25. Full particulars to "X. Y. Z." c/o Messrs. S. Maw, Son & Sons, 7 Aldersgate Street, E.C.

LEDGER and Invoice Clerk wanted to take charge of office in small Drug house in the North of England. State full particulars as to age, previous experience, salary expected, 7/56, Office of this Paper.

MANAGER, experienced in the manufacture and sale of high-class Toilet Preparations, Dentifrices, etc., age about 30, for London; position is one of permanency, progressive. State particulars (in confidence), experience, age, salary to 9/5, Office of this Paper.

PACKERS.—Experienced Case and Hamper Packers required for Drug trade. Apply, by letter, stating experience and references, to "J. H." c/o Crossley & Co., Ltd., 57 Coleman Street, E.C.

REPRESENTATIVE required, with connection amongst Wholesale and Retail Chemists, to introduce new preparation; must be smart man and of good appearance. State experience and terms to "S. M." c/o Burton's, General Buildings, Aldwych.

REPRESENTATIVE on commission basis wanted for up-to-date house dealing in Hair Brushes, Tooth-brushes, Combs, and good-class Druggists' Sundries; good commission; in strict confidence. "Combs" (147/40), Office of this Paper.

THOMPSON & CAPPER, LTD., Liverpool, will shortly have a vacancy for a really first-class Representative for Lancashire, Yorkshire, etc.

GENTLEMAN required to assist at stall at Aberdeen Exhibition for week commencing July 27. Apply, 10/16, Office of this Paper.

TRAVELLERS or Agents, with connection, required for South Coast, North-East Counties, and Scotland by London Packed Goods house. Address, "Powerful" (145/20), Office of this Paper.

WANTED, a youth who has had some experience in Laboratory work. Apply, Hodgkinson, Prestons & King, 262 Bishops-gate, E.C.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L." S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

BOMBAY.—Good Assistant with Minor qualification required for Kemp & Co., Ltd., of Bombay; age 21-30; passage paid both ways; three or four years' agreement; salary rupees 250, 280, 310, 350 per month; excellent prospects for steady man. Write to H. B. Sleeman & Co., Ltd., 84 Leadenhall Street, London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant; good Salesman and Dispenser; salary £20, £22, and £24 per month; second-class passage paid out; an exceptional opportunity for good man; references must be undeniable. Fullest particulars, including age and experience, to "E. S. N." Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

CHINA.—A thoroughly competent Assistant, with Minor qualification; age not over 30; must have had good experience in first-class Retail business; also reliable Drug Warehouse Clerk, with not less than five years' experience in Pricing and Invoicing and in keeping Stockbooks for Wholesale house; good salary for the right men; passage paid out and home; 4 or 5 years' agreement. Address, "China" (146/6), Office of this Paper.

INDIA.—Representative required by a firm of Manufacturing Chemists, age about 25, single, qualified, and well up in Therapeutics; the position is one offering good prospects of advancement to capable and energetic man. Application in the first place should be by letter, in which full particulars of age, past experience, salary required, etc., should be given, 250/620, Office of this Paper.

SMART, unqualified, unmarried Assistant for Hill Station in India; English climate; pay commencing at £140 per annum, with annual increments; free quarters; 5 years' agreement. Fullest particulars to "O. K. 185," c/o Deacon's, Leadenhall Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
RETAIL.

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ASSISTANT disengaged; London experience; good Dispenser and Window-dresser. Shiel, 17 Russell Road, Leyton.

ANY Pharmacist desiring qualified Locum between June 29 and July 18 please write, 6 Maley Avenue, West Norwood, S.E.

DENTISTRY, Pharmacy, Optics, etc.; Physician's Surgery, Proscribing experience; single-handed management; non-reg. 147/7, Office of this Paper.

DISENGAGED; Locum; thoroughly reliable, experienced, competent all-round. Davis, 214a The Grove, Hammersmith.

DISPENSER and Bookkeeper (lady); experienced; excellent testimonials; Doctor or Institution; London preferred. Apply, "T. T." (145/32), Office of this Paper.

EVENING work; Student; London; Dispensing, Counter; abstainer; 22; 6 years' experience; outdoors. 145/17, Office of this Paper.

EXPERIENCED, middle-aged, useful man; qualified; single; moderate terms for permanency. "Moderate" (146/39), Office of this Paper.

HOSPITAL Locum; qualified Dispenser. Irving, 66 Rowfant Road, Balham, London, S.W.

JUNIOR; good experience Dispensing, all Photographic processes; age 19; slightly deaf; West Yorkshire preferred. Appleby, 14 Norman Street, Dover.

JULY.—Manager, experienced, Locum; 36; good references. "Chemieus," 12 Pentonville, Newport, Mon.

LADY, present in charge of Post Office, seeks berth with Chemist; Office attached; desiring to study for Apothecaries' exam. Cope, P.O., Greenstreet, Sittingbourne.

LADY Dispenser (Hall) desires post; Doctor or Institution; experienced. Miss Shaw, Boston Hospital, Lincolnshire.

LADY (Chemist's Assistant) desires change of employment; with Doctor preferred; Bookkeeping; Hall. 148/23, Office of this Paper.

LADY Dispenser requires post. Insurance or Surgery; 6½ years' Dispensing experience. Apply, 8/34, Office of this Paper.

LADY Dispenser (Hall), capable, experienced, desires post. 147/23, Office of this Paper.

LOCUM or Management of Drug Stores; unqualified; steady. 2 Princes Terrace, Westgate-on-Sea.

LOCUM; qualified; thoroughly experienced and reliable. "Pharmacist," 23 Elias Avenue, Eastbourne.

LOCUM; unqualified; free month July; West End preferred; good references. 145/22, Office of this Paper.

LOCUM; unqualified; at liberty June 29; sound credentials; reasonable terms. "B. W.," 2 Grauville Road, Middlesbrough.

LOCUM, qualified, open for engagements from July 11. Walker, 124 London Road, Hazel Grove, Cheshire.

LOCUM; disengaged 29th; good experience; satisfactory references. "Qualified," 13 Lawrence Road, Southsea.

LOCUM; June 29 to July 11 inclusive; fee £4 10s. indoors inclusive plus fares, or equivalent; thoroughly capable man; unregistered. "Statim," 136 Prince of Wales Road, N.W.

LOCUM, Manager, 45, qualified, varied experience, active, energetic, thoroughly reliable, abstainer, well recommended, has few vacancies. "Laneashire" (146/2), Office of this Paper.

LOCUM, qualified, 20 years' first-class and Store experience, has vacant dates in July and August; sober and active. "Aspirin," 29 Avondale Road, Southport, Lancs.

LONDON.—Unqualified; good Dispenser and Countermau; 33; permanency preferred; best references; experienced. "Willing" (145/14), Office of this Paper.

MANAGERSHIP, to commence beginning of August; 28; Major qualification; good experience. West End, Suburban, Provincial; preferably in or near London. 144/30, Office of this Paper.

UNQUALIFIED; three evenings weekly; Dispensing or Counter. "A. D." 141 Tachbrook Street, S.W.

PHARMACIST (25) desires permanency; good experience Dispensing. 57 Selous Street, Blackburn.

QUALIFIED; Management, view succession; first-class experience; highest references. "Mac," "Ambleside," Carshalton.

QUALIFIED; Manager or Senior; married; Extractor, Prescriber. Hall, Market Place, Highworth, Wilts.

QUALIFIED Manager; undenialable testimonials; near London. "Spes," Grosvenor, 35 Paddington Street, Marylebone.

QUALIFIED; experienced Manager; 34; married; all-round up-to-date business man; active, energetic, obliging; good appearance and address; highest references; view gradual succession preferred. 146/20, Office of this Paper.

QUALIFIED Manager; 42; married; permanency; exceptional experience all branches, West End, City; best references; Locum entertained. "Statim," c/o 16 Natal Road, Streatham, S.W.

QUALIFIED; 35; tall; married; Counter, Dispensing; disengaged. Stewart, 16a Highgate Road, N.W.

QUALIFIED; 41; single; whole or part time; terms to suit. "Handy" (146/390), Office of this Paper.

QUALIFIED; 31; good varied experience, N.H.I. Dispensing, etc.; London preferred. "Radium" (146/16), Office of this Paper.

QUALIFIED middle-aged Chemist seeks an engagement; moderate hours; Prescriber and Extractor; town or country. "Statim" (149/3), Office of this Paper.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED Assistant; permanency or Relief; £2; disengaged. Richardson, 89 Camberwell Road, S.E.

UNQUALIFIED; half qualification; middle-aged; country preferred; clean, tidy, active; abstainer; in- or out-doors; good experience and reference. "Disengaged," 16 Nelson Street, Greenwich.

UNQUALIFIED Manager; country town or village preferred; middle age; good experience; permanency desired. "Parade," 167 Short Heath Road, Erdington, Warwickshire.

UNQUALIFIED Assistant (Student) seeks situation for six weeks, while Colleges are closed; country or seaside preferred; speaks English, Dutch, German fluently. Reply, 143/27, Office of this Paper.

UNQUALIFIED Assistant; 26; good Dispensing experience; disengaged end July. State salary, hours, 144/12, Office of this Paper.

UNQUALIFIED Assistant; 23; smart appearance; 7 years' high-class experience; good Counterman and accurate Dispenser. (South Coast. "Aspirin," 77 Marine Parade, Worthing.

UNQUALIFIED; age 20; Counter and Dispensing; evenings for study; London preferred. "W. P.," 32 Kelly Street, N.W. Disengaged.

UNQUALIFIED; 40; thoroughly experienced; married; permanency; country preferred; would live on premises. 148/1, Office of this Paper.

UNQUALIFIED Assistant; 10 years' excellent all-round experience high-class Retail, Optical, and Photographic; 26; married; expert Window-dresser; permanency. "Capable" (146/23), Office of this Paper.

UNQUALIFIED Assistant; wage 35s.; age 40; Mixed business; country preferred; good references. 147/33, Office of this Paper.

UNQUALIFIED Chemist, speaking French, German, and English, desires situation; best references. 149/25, Office of this Paper.

YOUNG man, 4 years' experience, desirous of change; West Riding Yorkshire. 147/29, Office of this Paper.

WHOLESALE.

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AGENTLEMAN is desirous of securing a position in a business connected with the Drug, Chemical, Proprietary, Photographic, or allied trades, with the object of becoming financially interested; good all-round experience in Wholesale and Export branches; communications will be treated in strictest confidence. Apply, 149/18, Office of this Paper.

ADVERTISER wishes to Represent Drug firm and work special line; mutual terms; good connection, provinces and London. 148/35, Office of this Paper.

AGENCY or position as Representative by a gentleman with good London and Provincial connections; excellent references. 145/11, Office of this Paper.

CHEMIST open to engagement in Wholesale Drug house; Manufacturing, Analysts, etc.; London experience, also practical work, comprising management, buying, travelling, office, warehouse. 147/11, Office of this Paper.

EVENING (any) work required by Wholesale Druggist; assist put up stock and Counter work. "C.," 3 Belham Street, Camberwell Green, S.E.

EXPORT.—Gentleman seeks position as Representative for Wholesale house for South America; knowledge of markets; speaks Spanish. Address, "Representante" (141/30), Office of this Paper.

FOREWOMAN; situation required; Wholesale Manufacturing Chemists; 12 years' experience Tablet Packing, etc., Checking, and Supervising. Apply, 146/24, Office of this Paper.

QUALIFIED (24) desires progressive situation with Wholesale or Manufacturing Chemists with view to travelling. "Miner" (147/17), Office of this Paper.

TRAVELLER, with good connection amongst Chemists and Hair-dressers, South and South-East Coast, seeks appointment. Apply, 147/24, Office of this Paper.

TRAVELLER (28), 5 years' experience, 3 South and West Coast, desires position as above; over 10 years' experience in Drug trade. 149/13, Office of this Paper.

REPRESENTATIVE (Salesman), 20 years' Retail experience, would like to travel for good house, Drugs and Sundries; salary, expenses, and commission basis. "Dependable" (144/2), Office of this Paper.

YOUNG gentleman, 18, of acceptable personality, speaking French and German, general knowledge of Chemistry (Matic, standard), greatly desires to enter service of a strong Wholesale house. "E. J. W.," 31 Southwood Avenue, Highgate, N.

12 years' London and Provincial experience; advertiser (28) desires re-engagement in Laboratory; sound knowledge of most branches, also Essences and General Distilling; disengaged; North preferred. 38 Ducie Street, Manchester, S.W.

"GUIDE TO PRELIMINARY EXAMINATIONS IN PHARMACY," ETC.—Many of our readers will be considering from time to time what to do with their sons, and in this connection may desire to ascertain the degree of difficulty of examinations for pharmacy, medicine, dentistry, etc. This little volume contains full information as to the regulations, together with sample papers and many useful hints on all the subjects given at the Preliminary examinations for these professions, and it is a book necessary to the intending competitor and useful to the parent seeking information.—*The Schoolmistress.* [The "Guide" is published at 2s. 6d. by post 2s. 9d., THE CHEMIST AND DRUGGIST (Book Department), 42 Cannon Street, London, E.C.]

MISCELLANEOUS.

MEADAM & TUCKNICK, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green. Shares for Sale (free of commission, subject).—250 Claudius Ash 5*l* per cent. Preference, 22*s.* 4*d.* e.d.; 100 G. B. Kent Preference, 17*s.* 6*d.* e.d.; 200 Meggeson Ordinary, 21*s.* 7*d.* 195 Mazawattee Ordinary, 2*s.* 3*d.* 100 Brunner Mond Ordinary, 90*s.*

Wanted (subject).—170 Wright Layman Preference, 20*s.* 9*d.*; 100 Wicks Pease Ordinary, 14*s.* 5*d.*; 20 Bleasdale. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOPFITTINGS (Second-hand).—Complete Set, suitable for Branch or beginner; 10-ft. handsome Drug Fitting, 12-ft. Plate-glass Counter, 5-ft. Dispensing-screen, Counter and Sponge Case, Perfume Case and Desk, Bent Plate-glass Counter Case, Mahogany Wall Case, Recess-labelled Shop-rounds and Ointment Jars, Dispensing Scales, Shop Chairs, etc.; 60 guineas. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 'Phone 9057 London Wall.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-eofied, Second-hand, at unbeaten prices; before you decide, get my estimate, you can't do better; 50 years fitting Pharmacies. George Cook, the Chemist's working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E. 1.

£25 10*s.* will buy 12-ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

GOLDEN Opportunity.—Good as new; Chemist's handsome Drug Fitting, Solid Mahogany Counter, Mahogany Plate-glass Wall Case, Dispensing Screen, Plate-glass Counter Case, Shop-rounds and Jars, Window Enclosure, Glass Shelves, Carboys; the lot £65 10*s.* absolute bargain. H. MILLS, the Chemists' Shopfitter, Shop-front Works, 163-5 Old Street, E.C. 'Phone: London Wall 550.

SECOND-HAND Fittings.—For Sale, cheap, 6-ft. and 7-ft. Dispensing Screens; 6-ft., 7-ft., 10-ft., and 12-ft. Wall Cases; 8-ft., 10-ft., and 12-ft. Glass-fronted Counters, full of Drawers; 4-ft., 5-ft., 6-ft., 8-ft., and 10-ft. Mahogany and Plate-glass Counters; Drug Fittings, all sizes; Silent Salesmen; Cash Check Tills from 15*s.*; estimates for alterations by experts. FARLEY'S SHOP-FITTING WORKS, Show Rooms, 227 Old Street, E.C.

THE CHEMISTS' FRIENDLY SOCIETY

Contribution Cards for ensuing Half-Year are being prepared and will be posted next week. Members who have changed their address and have not notified the Office are requested to do so at once.

THE MANAGER, C. F. S. (C Dept.),
194 St. Vincent Street, GLASGOW.

EASY WINDOW DRESSING

is made possible by my Window Centres. In connection with these, at the suggestion of several Pharmacists, I am forming a Window Centre Library, thus enabling one to obtain them on hire all the year round.

This will mean you can have a fresh Centre for each display, and as this series is intended a fresh one every time. No duplication. Particulars free. Only one Pharmacist in a town supplied. This is in addition to my Business System.

BILLYARD ALLISON, PHARMACIST, RETFORD.

FACE THE QUESTION
OF THE SELLING POWER OF YOUR WINDOW.—DOES IT PAY?

IF NOT—THEN SECURE AN INCREASE OF TRADE.

Send P.O. 1/10, Name of TWO PREPS. of 15 Words each, and secure TWO of our LATEST DISPLAYED CARDS, size 15 x 10 and 12 x 9, sent CARR. PAID, and prove for yourselves THEIR SELLING POWER.

F. MERTEN & CO., 72 Marlborough Rd., HOLLOWAY, LONDON, N.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6*d.*

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FOR DISPOSAL.

APPARATUS.

OERTLING chemical balance; 14-in. beam; splendid condition. Best offer to Thexton, Kirkby Lonsdale.

BOOKS AND PERIODICALS.

A SET of the "Year-Book of Pharmacy" from 1891-1912, as issued. State price to 146/10. Office of this Paper. "GENITO-URINARY and Venereal Diseases," by White and Martin, 9th edition, as new; what offers? published at 21*s.* Burley, c/o Tinker, Chemist, The Heights, Manchester.

DENTAL.

SET of dental instruments, nearly new, for sale; what offers? 27 Palatine Buildings, Moss Lane West, Manchester.

DRUGS AND CHEMICALS.

WHAT offers? 4 lb. selected Turkey opium; 2 oz. ol. neroli super. Thexton, Pharmacist, Kirkby Lonsdale.

PROPRIETARY ARTICLES.

WHAT offers? 6 dozen packets Bigg's powder sheep-dip. Robertson, Pharmacist, Axbridge, Som.

SHOP FITTINGS.

CHEMIST'S solid mahogany counter, shelves and drawers at back, glass-eased front 8 ft. by 2*1*/*2* ft.; also solid mahogany bent-glass counter case, mirror back and side, 5 ft. by 1*1*/*2* ft.; £12 the lot. Apply, Brown, 399 Stanley Road, Bootle, near Liverpool.

MISCELLANEOUS.

HAND pill plant; used once; adaptable for power; 3 grain; cost £18; £12, or nearest offer. "K," 18 Trinity Square, Borough, S.E.

WANTED.

DENTAL chair, second-hand, wanted, cheap. Morgan, Kimbolton, Hunts.

SOUTHALL'S materia-medica collection, good condition. 146/36, Office of this Paper.

PIESSE'S "Art of Perfumery." State price to J. B. Wigginton, 2 Kitson Road, Barnes, S.W.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

C. & D. SHOPS ACT NOTICE.—An inspector of shops under one of the County Councils, writing in regard to the notice-card which we publish for exhibition by chemists during closing hours on the half-holiday, says: "The notice seems to be as little objectionable to the shopkeeper as it can be made." We supply a pair of the notices for 8*d.*, post free.

"DISEASES AND REMEDIES."—The fourth edition of this useful book for chemists, published by the C. & D., is a concise survey of the most modern methods of medicine, telling the nature of ailments and describing the methods of treatment. The present edition has been carefully revised by a general medical practitioner, and certain parts of the book have been entirely rewritten. It is published at 3*s.* (by post 3*s.* 3*d.*), and can be obtained from the C. & D. Offices in London or Melbourne, and from the wholesale and sundries houses at the published price.

Fairchild Scholarship and Prizes.

THE following are the questions given to the candidates for the 1914-15 scholarship (50*l.*) and prizes (four of 5*l.* each) at the examination held simultaneously on Wednesday, June 24, in Belfast, Cardiff, Edinburgh, London, and Manchester:

PRACTICAL PHARMACY AND PRESCRIPTION READING.

(Time allowed—one hour and a quarter.)

1. What is understood by a green extract? Name two that are official, and how they are prepared.
2. Give the menstruum or menstrua used in preparing ext. cascara sagrada liquid, ext. glycyrrhiza liquid, ext. cinchona liquid, explaining in the case of the last-mentioned preparation the use of the agents employed.
3. Comment on the following prescriptions, then render them into full Latin and write in English the directions to the patient.

Ext. belladonna.	gr. xii	Spt. ammon. arom.	3ss.
Lin. camph. co.		Liquor. strychnin.	3ii.
Tinct. iodi a.	5iv.	Spt. chlorof.	3ss.
M. ft. lin.		Infus. aurant. ad	3vi.
Sig. Infricand. brach. nocte	M. ft. mist		
maneque.	Sig. 3ss. t.d.s. ant. cib.		

4. How much perchloride of mercury would be required for fifty tablets so that when one is placed in one pint of water the strength of the solution will be 1 in 500 by weight? Convert the result into its metric equivalent.
5. Supply the doses of the following substances, and give the composition and strength of each in active ingredient:

Polv. kino co.	Supposit. plumbi co.
Pil. ipecac. cum siccâ	Liquor. hydrg. perchlor.
Vinum antimoniale	Injectio. apomorphine hypoderm.
Pilula phosphori	Tinctura siccâ

ELEMENTARY BUSINESS KNOWLEDGE.

(Time allowed—one hour and a quarter.)

(Not more than five questions need be attempted, but all candidates must answer Nos. 1 and 3.)

1. What are the Poison Laws of Great Britain and Ireland? After enumerating them, state in regard to corrosive sublimate—
(a) Who may sell it by retail, and to whom.
(b) The conditions upon which a solution of it may be dispensed as a lotion.
(c) The conditions upon which a wholesaler may sell the chemical.
2. What is meant by "taking stock"? Describe (1) its objects, (2) how to take the stock of a chemist's shop, and (3) how to compute it when done.
3. What outlays, other than the cost of goods which he buys to sell again, has a chemist to take into account before he knows at what price he may sell them at a profit?
4. Describe concisely an arrangement of the stock of a chemist's shop in which consideration is given to the following desiderata:—
(1) Preservation of medicines with the minimum of alteration of appearance and properties.
(2) Conformity to statutory conditions as regards storage of poisons.
(3) Facility in serving customers.
5. What are "profit on cost" and "profit on returns"? Give as examples (1) a B.P. liquid preparation bought by the pound and sold by the fluid ounce, (2) a proprietary medicine, and (3) a medicine dispensed.
6. Describe how and with what you would dress a chemist's window in the springtime and before Christmas.

ELEMENTARY MATERIA MEDICA.

(Time allowed—One hour.)

1. State what you know about the official rhubarb-root, and name the pharmacopeial preparations of which it is an ingredient.
2. What are the official senna-leaves and whence obtained? Point out the distinguishing features of each.
3. Give the botanical name and habitat of each of the plants yielding the following:—
Oleum cibobromatis, oleum santali, oleum terebinthinae, oleum mystacinæ, santoninum, camboja.
- Also say (1) from what part of the plant each is obtained, and (2) into what B.P. preparations the oil enters.
4. What are the sources of soft paraffin, lard, pepsin, and spermaceti? Describe the methods of preparation of two of them.

ELEMENTARY CHEMISTRY.

(Time allowed—One hour and a half.)

1. What do you understand by analysis and synthesis? Illustrate your answer by describing two experiments on the composition of water, H_2O .
2. Describe (1) how you would prepare distilled water from 10 gallons of river-water, and (2) the apparatus which you would use. What substances would you expect to get rid of by the distillation?
3. What weight of potassium chlorate ($KClO_3$) is required to produce sufficient oxygen gas at $15^\circ C$ and 752 mm. atmospheric pressure to fill a gas-holder of 10 litres capacity? ($O = 16$).
4. How are common whiting, prepared chalk, and precipitated chalk related; what are their distinctive characters and properties, and to what use are they put? Describe the methods of preparing the two official substances mentioned.
5. Describe the principal commercial sources of ammonia, and a method of obtaining pure ammonia. What is ammonium carbonate B.P., and how is it prepared?

"Pharmaceutical Formulas."

(THE CHEMIST AND DRUGGIST'S book of Useful Recipes for the Drug-trade.)

THE ninth edition is now ready. It contains 1,078 pages, having been enlarged as well as revised. It is thus by pages nearly double the size of the first edition published in April 1898, but it contains about three times more matter, so that it will pay all practical men in pharmacy and the drug-trade to get a copy of the new edition. The price remains 10*s.* net, or 10*s.* 6*d.* post free. The following wholesale houses can supply the new edition:

Ayton, Saunders & Co., Ltd., Liverpool.
Barclay & Sons, Ltd., Farringdon Street, E.C.
Bleasdale, Ltd., York.
British Drug Houses, Ltd., Graham Street, City Road, N.
Bryce, Wm., 54 Lothian Street, Edinburgh.
Butler & Crispe, 82 Clerkenwell Road, E.C.
Edwards, W., & Son, 157 Queen Victoria Street, E.C.
Evans, Gadd & Co., Ltd., Exeter and Bristol.
Evans Sons Lescher & Webb, Ltd., London.
Evans Sons Lescher & Webb, Ltd., Liverpool.
Faulding, F. H., & Co., London and Adelaide.
Glasgow Apothecaries' Co., 32 Virginia Street, Glasgow.
Gower, John, 41 Voltaire Road, Clapham, S.W.
Hall, Forster & Co., Newcastle-on-Tyne.
Harkness, Beaumont & Co., Edinburgh.
Hattrick, W. & R., & Co., 158 Renfield Street, Glasgow.
Hirschfeld Bros., 263 High Holborn, W.C.
Hirst, Brooke & Hirst, Ltd., Leeds.
Holmes, W. & R., 3 Dunlop Street, Glasgow.
Hovenden, R., & Sons, Berners Street, Oxford Street, W.
Ismay, John, & Sons, City Road, Newcastle-on-Tyne.
Laughland, Mackay & Co., Ltd., 50 Lime Street, E.C.
Lennon, Ltd., London and all South African branches.
Lewis, H. K., 136 Gower Street, E.C.
Maw, S., Son & Sons, 7-12 Aldersgate Street, E.C.
May, Roberts & Co., Ltd., 7-11 Clerkenwell Road, E.C.
Murdoch, John, & Co., 52 Leadenhall Street, E.C.
Newbery, F., & Sons, Ltd., 27 Charterhouse Square, E.C.
Osborne, Garrett & Co., Frieth Street, Soho, W.
Paterson, W., & Sons, Aberdeen.
Petersen, Ltd., Cape Town, Johannesburg, etc.
Pinkerton, Gibson & Co., Edinburgh.
Potter & Clarke, Ltd., 60 Artillery Lane, E.C.
Raimes, Clark & Co., Ltd., Edinburgh.
Raimes & Co., Ltd., York.
Sangers, 258 Euston Road, N.W.
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The book is also obtainable at the offices of *The Chemist and Druggist of Australasia*, Melbourne and Sydney; from the National Drug and Chemical Co., Ltd., Montreal and branches; and from Messrs. McKesson & Robbins, New York, at prices inclusive of the import duties.

Official Recognition.

The Commissioners of Customs and Excise inform us, under date June 23, that they will continue to recognise "Pharmaceutical Formulas" as a book of reference for the purposes of exemption from Medicine Stamp-duty in favour of known, admitted, and approved remedies. We may recall the fact that "Pharmaceutical Formulas" was the first book which the Revenue authorities recognised for this purpose.

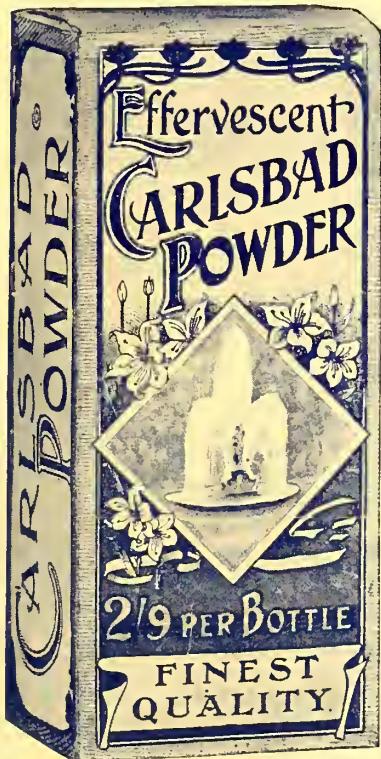
COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, July 1.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.
Midland Pharmaceutical Association, Birmingham. Annual excursion to Salford Priors and by river to Bidford-on-Avon.

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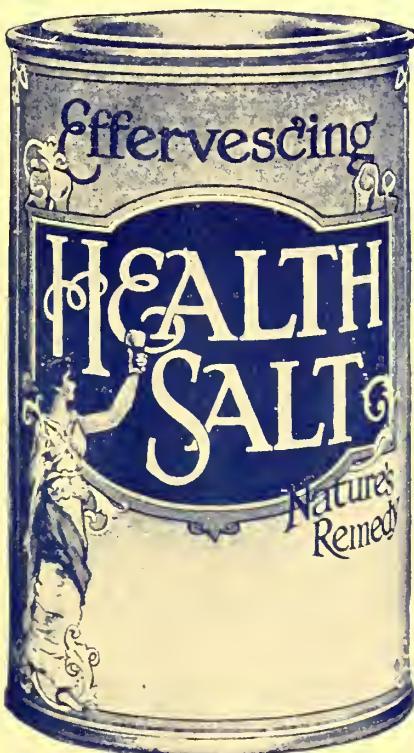


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